

Environmental Intelligence Network Systems Remote Monitoring System - Preliminary Design -

Welcome

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Preliminary Design Presentation

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| | |
|---------------------|---------------------------|
| Michael Devanandan: | Introduction & Conclusion |
| Anthony Ruotolo: | Use Cases |
| Joseph Halvey: | Data Flow Diagrams |
| Michael Devanandan: | Functional Requirements |
| Vernell Mitchell: | Environments & Testing |
| Michael Jakubowski: | Prototypes |

Use Case - Sensored User

- Sensored User – Registered User at a monitored location
- Able to check any sensored location data
- Able to delete the sensored user account
- Able to add and delete “read only” user accounts
- Able to delete the current monitored location
- Able to add or delete a sensor
- Able to change both system and personal preferences

Use Case - Remote User

- Remote User – Registered User at an unmonitored location
- Able to check any sensed location data
- Able to check logs
- Able to change the current, unregistered location to a registered, monitored location if an acceptable device has been installed (becoming a sensed user).

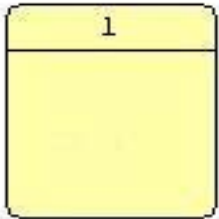
Use Case - “Read Only” User

- Read Only User – Guest Account
- Able to check any sensed location data
- Unable to change any settings
- Unable to add or delete sensors, locations, or accounts
- Associated with a Regular User account that created it

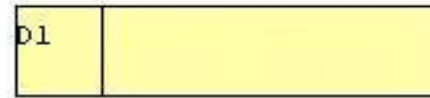
Use Case - Website Administrator

- Has ability to make visual changes to the site
- Can add users or otherwise make any changes if problems occur
- Has complete control of everything our program controls except the installation and setup of the software on the server

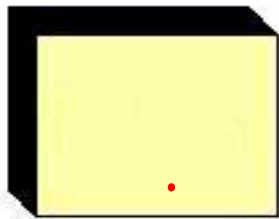
Data Flow Diagrams



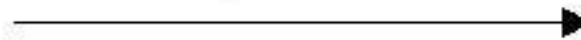
Process



Data Store



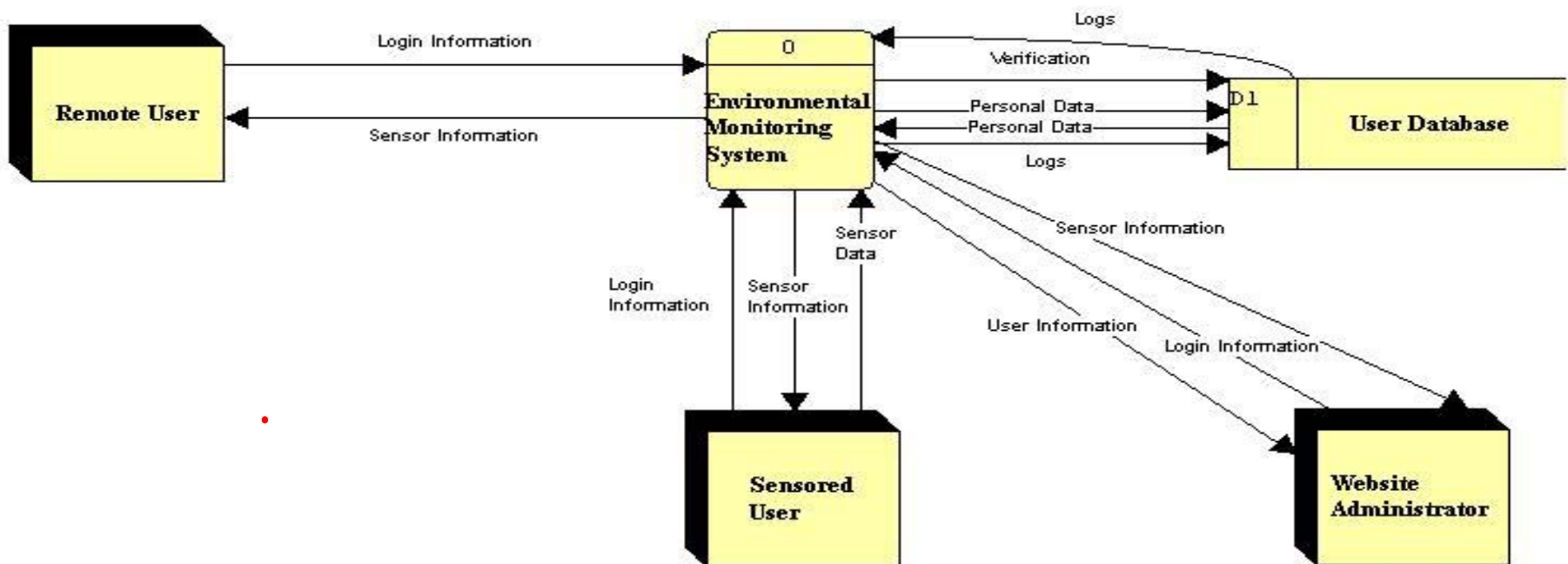
Data Source/Sink



Data Flow

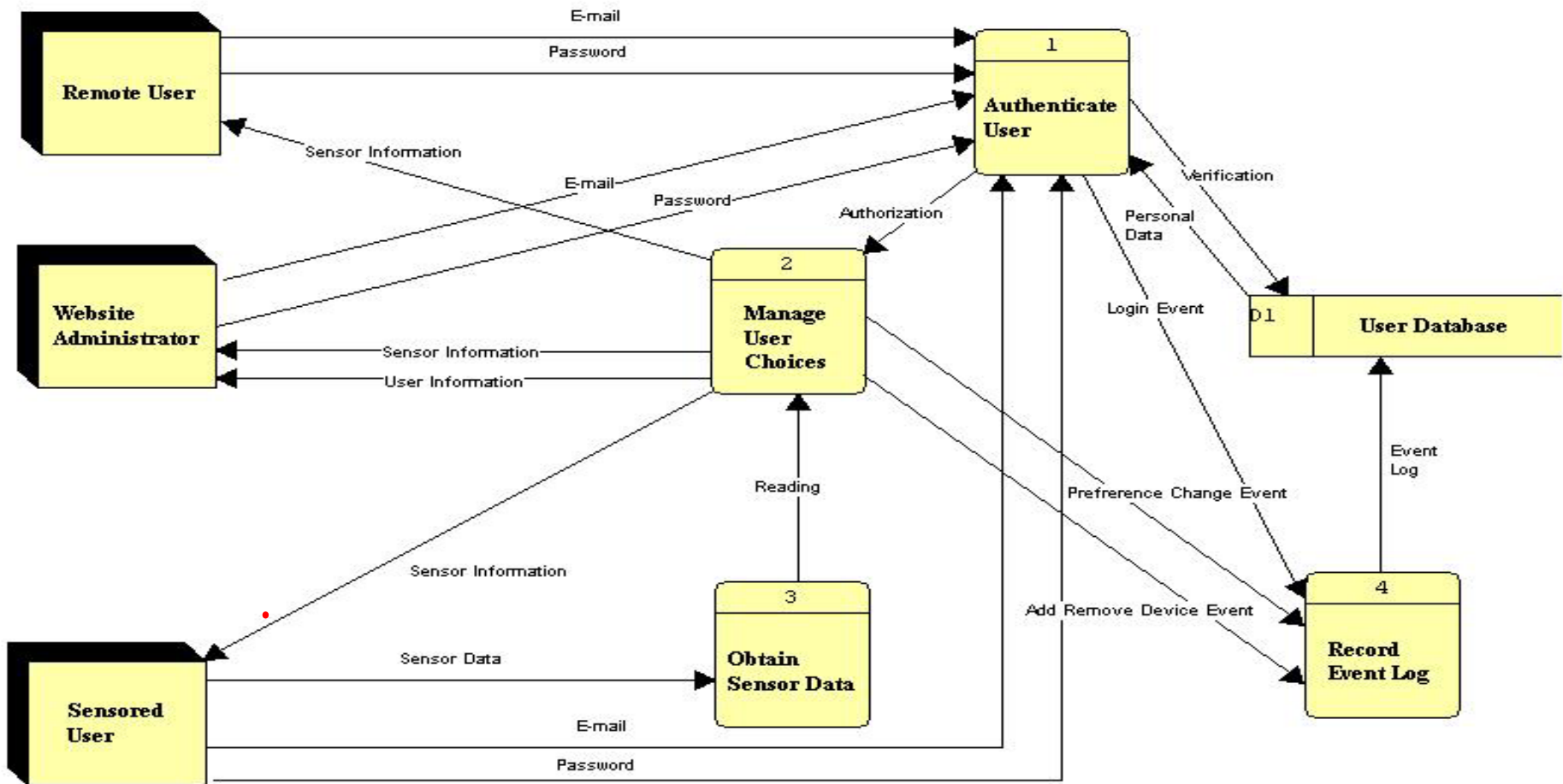
Data Flow Diagram

Context Diagram



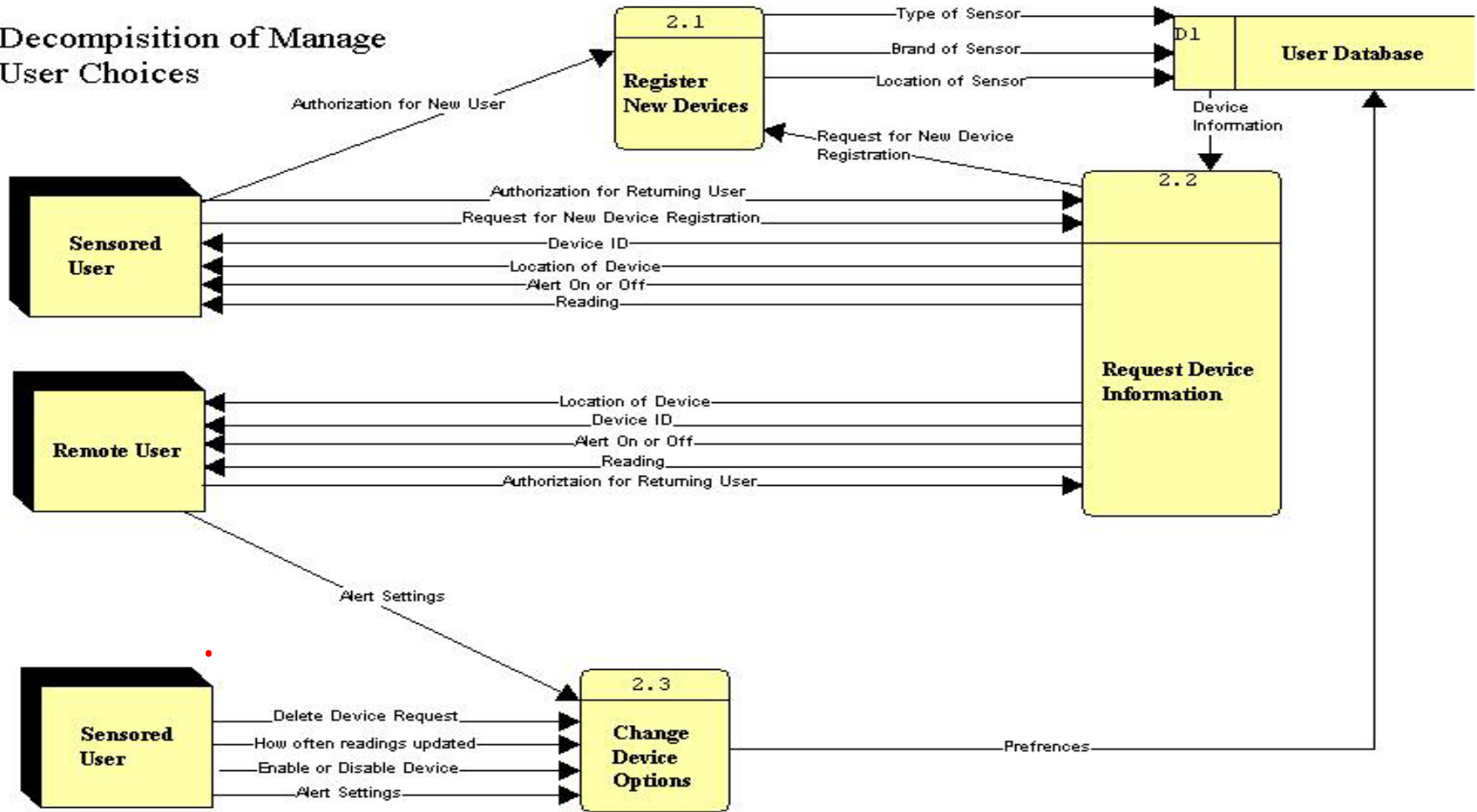
Data Flow Diagrams

Decomposition of Environmental Monitoring System



Data Flow Diagrams

Decomposition of Manage User Choices



Logical Data Store

- A logical data store is a description of the fields in the tables of a database.
- It is used to help plan the schema of a database.
- This logical data store will be used in the creation of the User Database for the Environmental Monitoring System.

Personal Data

- Account ID – A unique ID number for the user's account. NUMBER
- E-mail Address – the e-mail address of the user, used to identify the user at login. VARCHAR (50)
- Password – The user's password supplied at login to give access to the system. Must be between 6 and 12 characters long, including at least one upper case, one lower case, and at least one of the following characters: \$, *, #, &, ^, |, =, %. VARCHAR (13)
- First Name – The user's first name. VARCHAR (30)
- Last Name – The user's last name. VARCHAR (30)

Sensor Information

- Device ID – A unique ID number for the sensor. NUMBER
- Location – The location of the device. VARCHAR (20)
- Reading – The last reading received from the device. NUMBER
- Type of Sensor – The type of the sensor, including temperature, motion, and water level. VARCHAR (25)
- Acceptable Range – The acceptable range for a device. If the device leaves this range, it will trigger an alert. VARCHAR (7)
- Alert Status – The alert status of the device. A 1 indicates an alert, while a 0 indicates everything is normal. BOOLEAN
- Time Since Last Alert – The time elapsed since the last alert was triggered. VARCHAR2 (9)

Functional Requirements

- Create a database to store user information
- Have a web-based application that will interface with the database
- Allow users to create accounts and register a sensor device
- Allow users to view and manage their monitoring devices

Sensored User

- A sensed user's Web browser is set to the EIN Homepage by default.
- Username is the user's E-mail.
- Password consists of 6-12 characters, and includes at least one number, one uppercase letter, one lowercase letter, and at least one of eight recognized special characters shown here within double quotes “#\$/%^|&*=”.

Sensored User

- After authentication, a welcome message informs the user is at a recognized, monitored location.
- The user home page shows registered locations with the current location highlighted, and the devices and status associated with each location.

Sensored User

- The top of the screen has a navigation bar that leads to other functions available to the sensed user.
- The User Settings button allows the sensed user to delete the user's own account, change the settings, as well as add or delete a "read-only" account.

Sensored User

- The Device button allows the sensed user to add, delete, or change the settings of the devices which are associated with the current location.
- The Logs button navigates the sensed user to a page that displays all the alert and event logs in each device's history.

Remote User

- A remote user must open a web browser and navigate to the EIN homepage.
- A remote user's username is the user's E-mail.
- Password consists of 6-12 characters, and includes at least one number, one uppercase letter, one lowercase letter, and at least one of eight recognized special characters shown here within double quotes “#\$/%^|&*=”.

Remote User

- After authentication, a welcome message informs that the remote user is at an unrecognized, non-monitored location.
- The user home page screen shows the remote user's registered locations and the devices and status associated with each location.

Remote User

- The top of the screen has a navigation bar that leads to other functions available to the remote user.
- The User Settings and Device buttons are not usable by the remote user.
- The Logs button navigates the remote user to a page that allows the remote user to view the readings received by each device since the last alert.

Remote User

- The Add a New Location Link is shown on the home page, allowing the remote user to navigate to a page which will allow the remote user to add a new location.
- At this New Location page, the remote user must go through a registration process, which after completion will turn the remote user into a sensed user.

“Read-only” User

- A Read-only user must open a web browser and navigate to the EIN homepage.
- A "read-only" user's username is the user's E-mail.
- A "read-only" user's password consists of 6-12 characters, and includes at least one number, one uppercase letter, one lowercase letter, and at least one of eight recognized special characters shown here within double quotes “#\$/%^|&*=”.

“Read-only” User

- After authentication, a welcome message informs the "read-only" user is at a recognized location if applicable.
- The User Home screen shows the "read-only" user's registered locations with the current location highlighted, and the devices and status associated with each location if applicable.
- The User Settings, Device, and Log buttons are all disabled.

Website Administrator

- The website administrator opens a Web browser which has the EIN webpage as its homepage.
- The website administrator enters the site administrator's email address for the username
- The website administrator also enters the site administrator password which is between 6-12 characters long, features at least one number, one capital letter, one lowercase letter, and at least one of eight recognized special characters shown here within double quotes “#\$/%^|&*=”.

Website Administrator

- The website administrator page is displayed, including a welcome statement and a message informing the site administrator of the current location.
- The website administrator page also displays the last 10 lines of recent account events by the different users, as well as, the last 10 alerts, with each displayed with the most recent at the top.

Website Administrator

- The bottom of the website administrator page has a navigation bar which allows the site administrator to move to a complete list of sensed users or devices or alerts.
- The website administrator can click on the User button and arrive at a page where the site administrator can select a sensed user's account and see the sensed user's information.
- The website administrator can disable user accounts or devices as necessary via the User Information pages.

Website Administrator

- The Devices button navigates to a page where the site administrator can filter the devices by either sensed user's that have the devices or by the names of the devices.
- The Alerts button navigates to a page where the site administrator can view all of the alerts reported for any sensed user to the EMS with most recent displayed at the top.
- The website administrator can filter the alerts by sensed user location, or sensed user device.

Development Environment

Oraserv is part of both our development and production environments (described later).

HARDWARE

- | | | |
|-----------------------|-----------------------|-----------------------|
| - Intel Pentium 4 CPU | - Intel Pentium 4 CPU | - Intel Pentium 4 CPU |
| - 1,300 MHz | - 1.80 GHz | - 2.40 GHz |
| - 128 MB of RAM | - 256 MB of RAM | - 512 MB of RAM |

OS

- | | | |
|---|--------------------------------------|--------------------------------------|
| Microsoft Windows NT 2000 Professional | Microsoft Windows XP Professional | Microsoft Windows XP Professional |
| - Service Pack 3 | - Version 2002 - Service Pack 2 | - Version 2002 - Service Pack 2 |

Development Environment

Developer Software

Apache – 2.046

Internet Explorer – 6.0.2900.2180 w/ SP2

Macromedia Dreamweaver MX – 6.0.1722.0

Macromedia Fireworks MX – 6.0.0.273

Microsoft Excel – 11.0.6355.0

Microsoft Paint – 6.0.2900.2180

Microsoft PowerPoint – 11.0.6361.0

Microsoft Project – 9.0.2001.0219 SR-1

Microsoft Word – 11.0.6359.0

Development Environment

Developer Software

Mozilla Firefox – 1.0.0

mySQL – 4.1.14

Netscape – 7.1

Oracle – 10 g

PHP – 4.3.11

Putty - 0.53b

Visible Analyst Workshop - 7.5.5

WinSCP - 3.1.0.165

Production Environment

- Oraserv's operating system is Red Hat Enterprise Linux ES release 3.
- Apache
- mySQL
- Oracle
- PHP

Testing

Unit Testing

Integration Testing

System Testing

Acceptance Testing

Acceptance Test

Sensored User

Login page

- Can enter e-mail for username
- Can enter password, 6-12 characters long, at least one number, capital letter, lowercase letter, and one of eight recognized special characters shown here within double quotes “# \$ % ^ | & * =”
- Submit button works and submits the information within the e-mail and password fields

Acceptance Test

Sensored User

Login page

- Submit button sends the sensed user to the logged-in screen which is a user homepage with a welcome message, as well as a message informing the sensed user that the user is at a recognized, monitored location.
- The forgotten password link works and guides the sensed user with instruction on getting a working password
- The FAQ link works
- The new registration link works

Unit Test

UNIT TEST: 1. Authentication Screen (Index.php)

| Num | Name | ID | Description | State Before Test | State After Test | Input/Test Values | Steps to be Executed | Expected Results | Pass/Fail | Comments |
|-----|---------------------------|-----------|---|-------------------|------------------|------------------------------|---|---|-----------|----------|
| 1 | Load Page | Index | Page is loaded in the web browser | Index.php | Index2.php | None | Load webpage | Index2 page is loaded automatically | | |
| 2 | Click submit w/o any info | Submit | Submit button is clicked without any login info in the fields | Index2.php | Error page | None | Directed to error page (may be redirected back to Index2 page after 5 sec.) | An error is given telling user the email address isn't valid | | |
| 3 | Incorrect password | Password | Valid, correct user name (email) and valid, incorrect password is entered | Index2.php | Error page | Test Username, Test password | Directed to error page (click link to return to login page) | An error is given telling user that his password is incorrect | | |
| 4 | Correct Login | Login | Valid, correct email and password is entered | Index2.php | Login.php | Test Username, Test password | Load the login page | The login page is displayed | | |
| 5 | Incorrect user name | User name | Valid, incorrect user name is entered | Index2.php | Error page | Test Username, Test password | Directed to error page (click link to return to login page) | An error is given telling user that his email address is incorrect. | | |
| 6 | Invalid password | Password | An invalid password is entered | Index2.php | Error page | Test Username, Test password | Directed to error page (may be redirected back to Register page after 5 sec.) | An error is given stating the password is invalid | | |
| 7 | Registration link clicked | Link | Registration link is clicked | Index2.php | Register.php | None | Load registration page | Registration page is loaded. | | |

New User-EIN Home Page

The screenshot shows a Microsoft Internet Explorer browser window displaying the E.I.N. SYSTEMS login page. The browser's address bar shows the URL: <http://ares.cs.siena.edu/~smj2080/wbd/login.htm>. The page features a large green banner with the text "E.I.N. SYSTEMS Environmental Intelligence Network". Below the banner are six blue oval buttons: Home, Login/Logout, Device Management, User Settings, Faq/Help, and Logs. The main heading is "Login" in green. Underneath, it says "Returning Users Login Here:" followed by two input fields for "User Name" and "Password". A link for "Forgotten Password?" is located to the right of the password field. Below the input fields are "Login" and "Logout" buttons. A "Registration" section follows, with a green heading and a paragraph of text. At the bottom of the registration section, it says "New Users must have a compatible device to register an account. See [FAQ](#) for a list of tested devices. If you have a device and are at the location you wish to register please [proceed here](#)." The browser's status bar at the bottom shows "Done" and "Internet".

bar.gif - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://ares.cs.siena.edu/~smj2080/wbd/login.htm> Go Links

E.I.N. SYSTEMS

Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Login

Returning Users Login Here:

User Name

Password [Forgotten Password?](#)

Login Logout

Registration

Welcome to E.I.N. Systems environmental monitoring network. Our site allows a user to access the information from an environmental sensor attached to their computer, from any internet access point. The system features adjustable alert features which will ensure that your sensed location is safe or inform you of the details if something is amiss. Multiple locations can be added under a single account, allowing our users quick reference to all of their properties, so they can be sure that everything is safe and secure from anywhere at any time. To learn more about environmental monitoring network please see our [FAQ](#) for a full set of instructions.

New Users must have a compatible device to register an account. See [FAQ](#) for a list of tested devices. If you have a device and are at the location you wish to register please [proceed here](#).

Done Internet

New User-Registration

bar.gif - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://ares.cs.siena.edu/~smj2080/wbd/new.htm> Go Links >>

E.I.N. SYSTEMS

Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

New User Registration

Follow the process below to start registering your account. Remember after you submit the form you will have to register you first device for the account to become active.

Passwords must consist of 6-12 characters and include at least one uppercase letter, one lowercase letter, and at least one of eight recognized special characters including % * | & ^ \$ # =

| | |
|-------------------------|--------------------------|
| First | <input type="text"/> |
| Last | <input type="text"/> |
| Address | <input type="text"/> |
| Phone | <input type="text"/> |
| Email | <input type="text"/> |
| Password (EX: Mfj*-=69) | <input type="password"/> |
| Security Question | <input type="text"/> |
| Favorite Pet ? | <input type="text"/> |
| Security Answer | <input type="text"/> |

Internet

Sensored User-Login EIN Home

bar.gif - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://ares.cs.siena.edu/~smj2080/wbd/login.htm> Go Links >>

E.I.N. SYSTEMS

Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Login

Returning Users Login Here:

User Name

Password [Forgotten Password?](#)

Login Logout

Registration

Welcome to E.I.N. Systems environmental monitoring network. Our site allows a user to access the information from an environmental sensor attached to their computer, from any internet access point. The system features adjustable alert features which will ensure that your sensed location is safe or inform you of the details if something is amiss. Multiple locations can be added under a single account, allowing our users quick reference to all of their properties, so they can be sure that everything is safe and secure from anywhere at any time. To learn more about environmental monitoring network please see our [FAQ](#) for a full set of instructions.

New Users must have a compatible device to register an account. See [FAQ](#) for a list of tested devices. If you have a device and are at the location you wish to register please [proceed here](#).

Internet

Sensored User-Home

Home Page
Welcome Back, Mr.Swarner

Your are located at your office location.
IP: 192.168.0.101
You have recieved 0 alert(s) since you last logged in on 11/15/05 at 13:35:04
The EMS is currently monitoring two locations: 1.Office 2.Home

Location 1 Office:

| Device | Status | Reading |
|--------------------|--------|------------------------------|
| Temperature Sensor | ACTIVE | 70 F at 11:30:00 on 11/16/05 |

Quick Bar
DEVICE | ALERTS | Logout

Location 2 Home:

| Device | Status | Reading |
|--------------------|--------|-------------------------------------|
| Temperature Sensor | ACTIVE | 72 F at 11:30:00 on 11/16/05 |
| Motion Sensor | ACTIVE | No movement at 11:30:00 on 11/16/05 |

Quick Bar
DEVICE | ALERTS | Logout

Sensored User-Alerts

Alerts - Microsoft Internet Explorer

Address: <http://ares.cs.siena.edu/~smj2080/wbd/alerts.htm>

Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Alerts by Device

Thermometers

| Device | Status | Location | Alert when temp < | Alert when temp >= |
|----------------|--------|----------|-------------------|--------------------|
| Thermometer #1 | ACTIVE | OFFICE | 65 F | 85 F |
| Thermometer #2 | ACTIVE | HOME | 65 F | 85 F |

Quick Bar

DEVICE ALERTS Logout

Cameras

| Device | Status | Location | Alert: Motion Activated | Scheduled Snapshot |
|--------|--------|----------|-------------------------|--------------------------------|
| Camera | ACTIVE | HOME | On | Setting On Frequency 15 Min |

Sensored User-Device MGMT

E.I.N. SYSTEMS
Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Device Management

You have registered 3 devices at 2 locations.
You can add a new device to a location [here](#).
You can remove a current device from a location [here](#).

Devices:

| Device | Brand | Status | Location | Alerts Set |
|----------------|--------------------|--------|----------|--|
| Thermometer #1 | Somy #24601 | ACTIVE | OFFICE | 65 F < OK <= 85 F |
| Thermometer #2 | Panaphonic #69 | ACTIVE | HOME | 65 F < OK <= 85 F |
| Camera | Magnetbox #8675309 | ACTIVE | HOME | Motion Activated On Snapshot Setting On Frequency 15 Min |

Quick Bar
DEVICE ALERTS Logout

Sensored User-User Settings

User Settings - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://ares.cs.siena.edu/~smj2080/wbd/user.htm> Go Links >>

User Account Management

Here you can edit your personal information and add a read only user.

| User Info | Register A Read Only Guest User |
|---|--|
| First <input type="text"/> | First <input type="text"/> |
| Last <input type="text"/> | Last <input type="text"/> |
| Address <input type="text"/> | Address <input type="text"/> |
| Phone <input type="text"/> | Phone <input type="text"/> |
| Email <input type="text"/> | Email <input type="text"/> |
| Password <input type="text"/> | Password <input type="text"/> |
| Security Question <input type="text"/> | Security Question <input type="text"/> |
| Security Answer <input type="text"/> | Security Answer <input type="text"/> |
| <input type="button" value="Submit Changes"/> | <input type="button" value="Submit Guest User"/> |

[Click here to remove an account.](#)

Internet

Sensored User-Logs

bar.gif - Microsoft Internet Explorer

Address: <http://ares.cs.siena.edu/~smj2080/wbd/logs.htm>

Logs

Devices: Messages Recieved Since Last Alert
Thermometer #1 Location: Office

| Message | Status | Date and Time | Reading |
|---------------------|--------|-------------------|---------|
| Reading | ACTIVE | 11/14/05 12:00:00 | 70F |
| Reading | ACTIVE | 11/13/05 12:00:00 | 71F |
| Alert (Below Range) | ACTIVE | 11/12/05 15:16:08 | 62F |

Quick Bar
DEVICE ALERTS Logout

Thermometer #2 Location: Home

| Message | Status | Date and Time | Reading |
|-------------------|----------|-------------------|---------|
| Reading | ACTIVE | 11/14/05 16:00:00 | 73F |
| Reading | ACTIVE | 11/13/05 16:00:00 | 72F |
| Alert (No Signal) | INACTIVE | 11/13/05 01:23:09 | None |

Quick Bar
DEVICE ALERTS Logout

Camera Location: Home

| Message | Status | Date and Time | Reading |
|---------|--------|-------------------|--------------------------|
| Reading | ACTIVE | 11/15/05 12:00:00 | Snapshot |

Remote User-Login

bar.gif - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://ares.cs.siena.edu/~smj2080/wbd/login.htm> Go Links

E.I.N. SYSTEMS

Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Login

Returning Users Login Here:

User Name

Password [Forgotten Password?](#)

Login Logout

Registration

Welcome to E.I.N. Systems environmental monitoring network. Our site allows a user to access the information from an environmental sensor attached to their computer, from any internet access point. The system features adjustable alert features which will ensure that your sensed location is safe or inform you of the details if something is amiss. Multiple locations can be added under a single account, allowing our users quick reference to all of their properties, so they can be sure that everything is safe and secure from anywhere at any time. To learn more about environmental monitoring network please see our [FAQ](#) for a full set of instructions.

New Users must have a compatible device to register an account. See [FAQ](#) for a list of tested devices. If you have a device and are at the location you wish to register please [proceed here](#).

Internet

Remote User-Home

The screenshot shows a Microsoft Internet Explorer browser window displaying the 'Ein Systems Home Page'. The browser's address bar shows the URL: `http://ares.cs.siena.edu/~smj2080/wbd/home2.htm`. The page features a navigation bar with buttons for Home, Login/Logout, Device Management, User Settings, Faq/Help, and Logs. The main content area is titled 'Home Page' and includes a personalized welcome message: 'Welcome Back, Mr.Swarner'. Below this, a status message indicates the user is at an unregistered location with an IP of '?'. It also reports that the user has received 0 alerts since logging in on 11/15/05 at 13:35:04 and that the EMS is currently monitoring two locations: Office and Home. A link is provided to add a new location.

Location 1 Office:

| Device | Status | Reading |
|--------------------|--------|------------------------------|
| Temperature Sensor | ACTIVE | 70 F at 11:30:00 on 11/16/05 |

Quick Bar

DEVICE | ALERTS | Logout

Location 2 Home:

| Device | Status | Reading |
|--------------------|--------|-------------------------------------|
| Temperature Sensor | ACTIVE | 72 F at 11:30:00 on 11/16/05 |
| Motion Sensor | ACTIVE | No movement at 11:30:00 on 11/16/05 |

Remote User-Logs

bar.gif - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address http://ares.cs.siena.edu/~smj2080/wbd/logs.htm Go Links

Home Login/Logout Device Management User Settings Faq/Help Logs

Logs

Devices: Messages Received Since Last Alert
Thermometer #1 Location: Office

| Message | Status | Date and Time | Reading |
|---------------------|--------|-------------------|---------|
| Reading | ACTIVE | 11/14/05 12:00:00 | 70F |
| Reading | ACTIVE | 11/13/05 12:00:00 | 71F |
| Alert (Below Range) | ACTIVE | 11/12/05 15:16:08 | 62F |

Quick Bar
DEVICE ALERTS Logout

Thermometer #2 Location: Home

| Message | Status | Date and Time | Reading |
|-------------------|----------|-------------------|---------|
| Reading | ACTIVE | 11/14/05 16:00:00 | 73F |
| Reading | ACTIVE | 11/13/05 16:00:00 | 72F |
| Alert (No Signal) | INACTIVE | 11/13/05 01:23:09 | None |

Quick Bar
DEVICE ALERTS Logout

Camera Location: Home

| Message | Status | Date and Time | Reading |
|---------|--------|---------------|---------|
|---------|--------|---------------|---------|

Internet

Site Administrator-Login

bar.gif - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address <http://ares.cs.siena.edu/~smj2080/wbd/login.htm> Go Links >>

E.I.N. SYSTEMS

Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Login

Returning Users Login Here:

User Name

Password [Forgotten Password?](#)

Login Logout

Registration

Welcome to E.I.N. Systems environmental monitoring network. Our site allows a user to access the information from an environmental sensor attached to their computer, from any internet access point. The system features adjustable alert features which will ensure that your sensed location is safe or inform you of the details if something is amiss. Multiple locations can be added under a single account, allowing our users quick reference to all of their properties, so they can be sure that everything is safe and secure from anywhere at any time. To learn more about environmental monitoring network please see our [FAQ](#) for a full set of instructions.

New Users must have a compatible device to register an account. See [FAQ](#) for a list of tested devices. If you have a device and are at the location you wish to register please [proceed here](#).

Internet

Site Administrator-Home

E.I.N. SYSTEMS
Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Home Page

Welcome Mr. Arnold Administrator

Your are located at IP: 867.53.09
You last logged in on 11/14/05 at 13:35:04

Most Recent Events:

| Date & Time | Account ID | Location | Event | IP |
|----------------------|------------|----------|----------------------|---------------|
| 11:30:00 on 11/16/05 | 101 | Office | Logged In | 192.168.0.101 |
| 08:30:03 on 11/16/05 | 100 | Office | Logged In | 192.168.0.100 |
| 10:30:00 on 11/15/05 | 127 | Home | New Device Added | 127.0.0.01 |
| 10:25:08 on 11/14/05 | 127 | Home | Logged In | 127.0.0.01 |
| 13:30:00 on 11/14/05 | 134 | Home | Account Registration | 134.132.0.100 |
| 11:30:00 on 11/13/05 | 127 | Office2 | New Location Added | 127.0.00.010 |

Site Administrator-Home(Cont)

11:30:00 on 11/10/05 192 Office Logged In 192.168.0.101

[Click](#) to expand view for all events.

Most Recent Alerts:

| Date & Time | IP | Account ID | Location | Device | Alert Type | Message |
|----------------------|----------------|------------|----------|--------------|--------------|-----------------|
| 12:30:00 on 11/16/05 | 109.342.45 | 101 | Home | Camera | User Defined | Snap Shot Taken |
| 02:00:00 on 11/13/05 | 867.5.309 | 100 | Home | Water Sensor | Moisture | Water Detected |
| 17:45:07 on 11/12/05 | 192.168.0.101 | 127 | Office | Thermometer | Below Range | Reading 63 F |
| 04:30:00 on 11/10/05 | 109.342.45 | 127 | Home | Camera | User Defined | Snap Shot Taken |
| 07:25:07 on 11/9/05 | 192.168.0.101 | 134 | Office | Thermometer | Below Range | Reading 63 F |
| 12:23:07 on 11/8/05 | 192.168.0.101 | 127 | Office | Thermometer | Below Range | Reading 63 F |
| 17:45:07 on 11/7/05 | 24.60.1 | 127 | Home | Thermometer | Above Range | Reading 87 F |
| 04:30:00 on 11/7/05 | 132.222.22.22 | 128 | Dorm | Camera | User Defined | Snap Shot Taken |
| 12:23:07 on 11/6/05 | 192.167.60.100 | 192 | Office2 | Thermometer | Below Range | Reading 62 F |
| 12:23:07 on 11/8/05 | 192.168.0.101 | 192 | Office | Thermometer | Above Range | Reading 90 F |

[Click](#) to expand view for all Alerts.

Filter Accounts By:

Site Administrator-Alert Filter

Device Management - Microsoft Internet Explorer

Address: <http://ares.cs.siena.edu/~smj2080/wbd/adminalert.htm>

E.I.N. SYSTEMS
Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Logs by Alert

Alerts:

| Date & Time | Account ID | IP | Location | Device | Alert Type | Message | Alert |
|----------------------|------------|----------------|----------|--------------|--------------|-----------------|-------|
| 12:30:00 on 11/16/05 | 101 | 109.342.45 | Home | Camera | User Defined | Snap Shot Taken | |
| 02:00:00 on 11/13/05 | 100 | 867.5.309 | Home | Water Sensor | Moisture | Water Detected | |
| 17:45:07 on 11/12/05 | 127 | 192.168.0.101 | Office | Thermometer | Below Range | Reading 63 F | |
| 04:30:00 on 11/10/05 | 127 | 109.342.45 | Home | Camera | User Defined | Snap Shot Taken | |
| 07:25:07 on 11/9/05 | 134 | 192.168.0.101 | Office | Thermometer | Below Range | Reading 63 F | |
| 12:23:07 on 11/8/05 | 127 | 192.168.0.101 | Office | Thermometer | Below Range | Reading 63 F | |
| 17:45:07 on 11/7/05 | 127 | 24.60.1 | Home | Thermometer | Above Range | Reading 87 F | |
| 04:30:00 on 11/7/05 | 128 | 132.222.22.22 | Dorm | Camera | User Defined | Snap Shot Taken | |
| 12:23:07 on 11/6/05 | 192 | 192.167.60.100 | Office2 | Thermometer | Below Range | Reading 62 F | |
| 12:23:07 on 11/8/05 | 192 | 192.168.0.101 | Office | Thermometer | Above Range | Reading 90 F | |

Filter Accounts By:

Read Only User-Home

E.I.N. SYSTEMS
Environmental Intelligence Network

Home Login/Logout Device Management User Settings Faq/Help Logs

Home Page

Welcome Back, Mr.Friend

Your are located at unknown location and a read only user. Links to other pages are shown but are not active.
IP: ?
You have recieved 0 alert(s) since you last logged in on 11/15/05 at 13:35:04
The EMS is currently monitoring two locations: 1.Office 2.Home

Location 1 Office:

| Device | Status | Reading |
|--------------------|--------|------------------------------|
| Temperature Sensor | ACTIVE | 70 F at 11:30:00 on 11/16/05 |

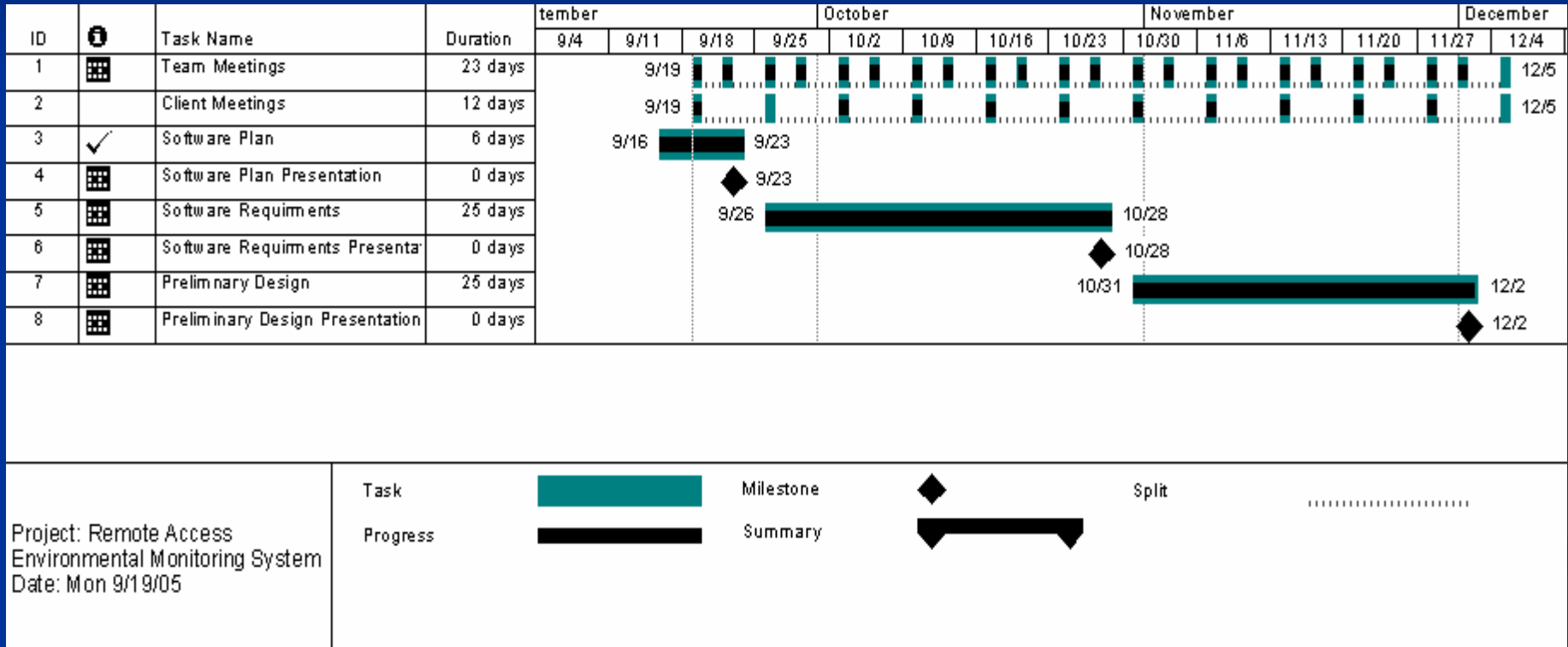
Quick Bar
DEVICE ALERTS Logout

Location 2 Home:

| Device | Status | Reading |
|--------|--------|---------|
|--------|--------|---------|

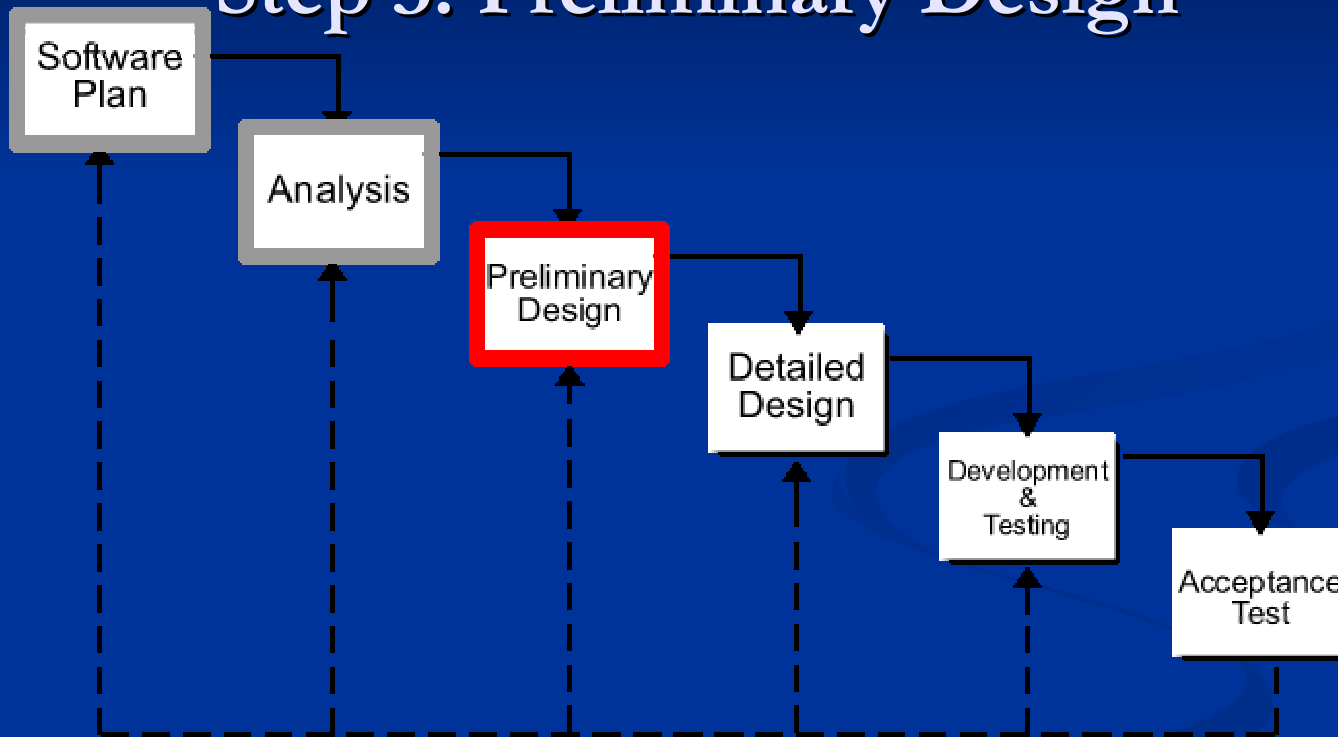
Gantt Chart

Development Plan



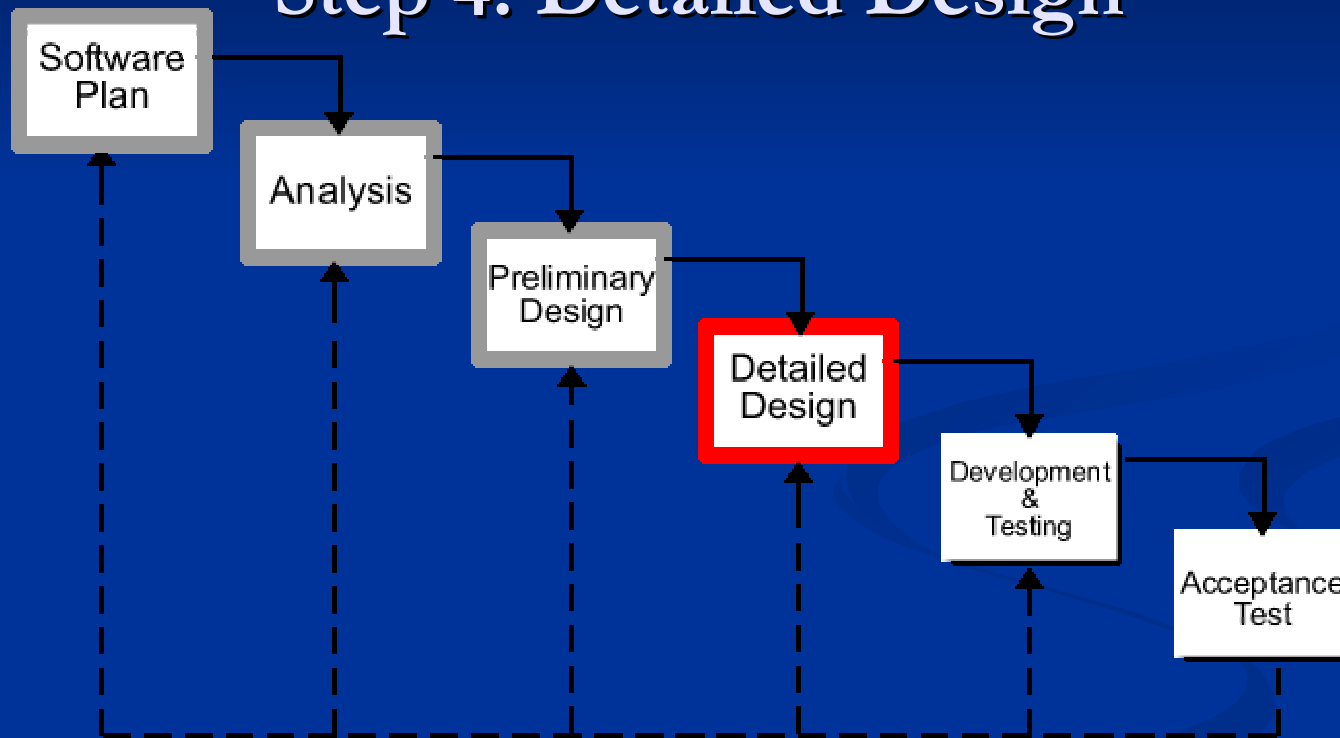
Classic Waterfall Model

Step 3: Preliminary Design



Classic Waterfall Model

Step 4: Detailed Design



What's Next?

Tentative Dates

Detailed Design – February 15th, 2006

Acceptance Test – April 25th, 2006

Summary & Questions

Any Questions?