

# Environmental Intelligence Network Systems Remote Monitoring System - Requirements Specification -

## Welcome

Mr. Ken Swarner

Systems Administrator

Dr. Tim Lederman

Professor

# Requirements Specification Presentation

Roger Bacon 328

October 28, 2005

Michael Devanandan:	Introduction & Summary
Ybelka Brito:	Data Flow Diagrams
Joseph Halvey:	Prototypes
Vernell Mitchell:	Development Schedule

# EIN Systems Organization

## Team Structure

Ybelka Brito

Michael Devanandan

Joseph Halvey

Michael Jakubowski

Vernell Mitchell

Anthony Ruotolo

Librarian

Team Leader

Software Developer

Project Engineer

Webmaster

Systems Analyst

# 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

# Regular User

- Able to add or delete both regular and “read only” user accounts
- Able to add or delete a monitored location
- Able to add of delete a sensor
- Able to change both system and personal preferences

## “Read Only” User

- 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

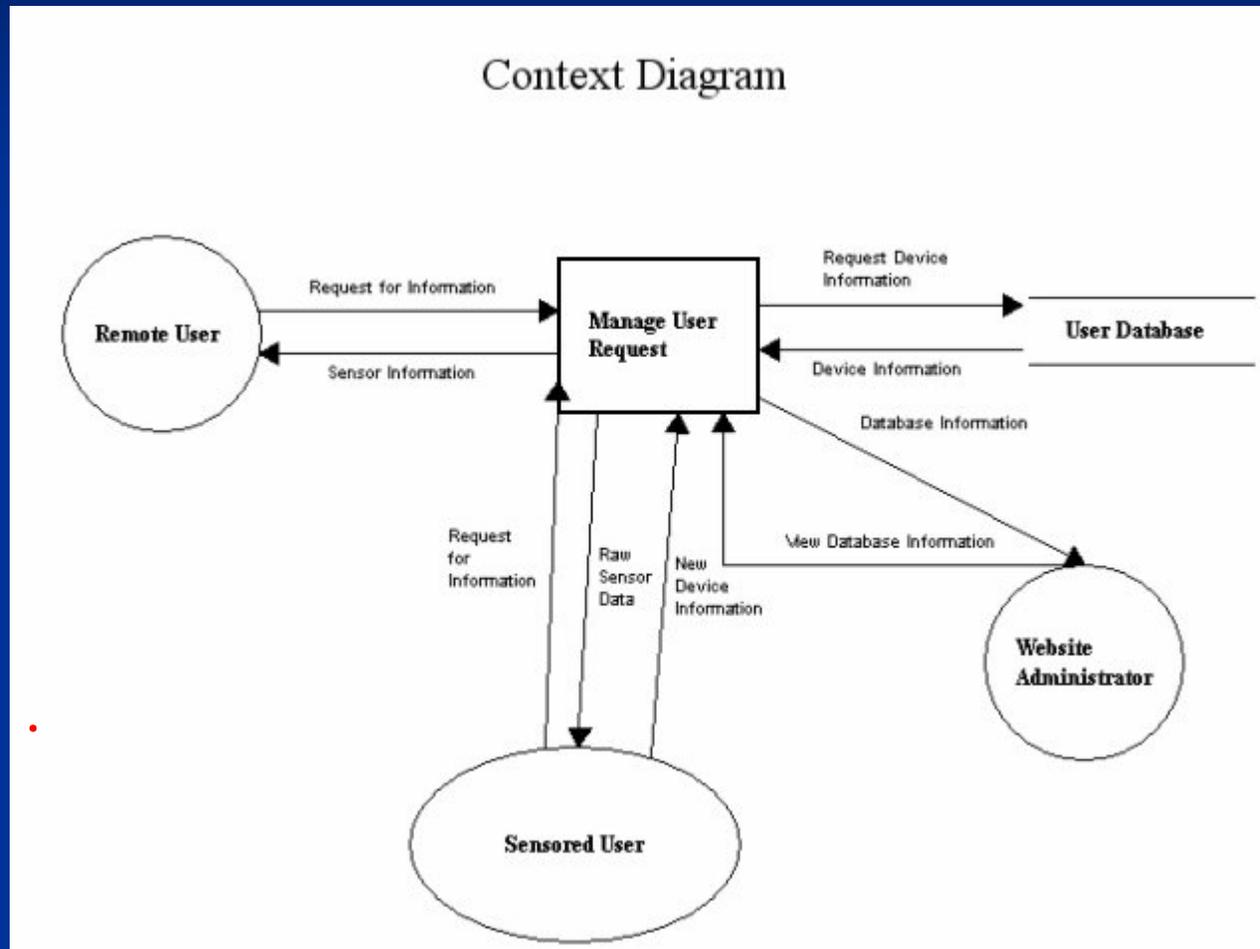
# Website Administrator

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

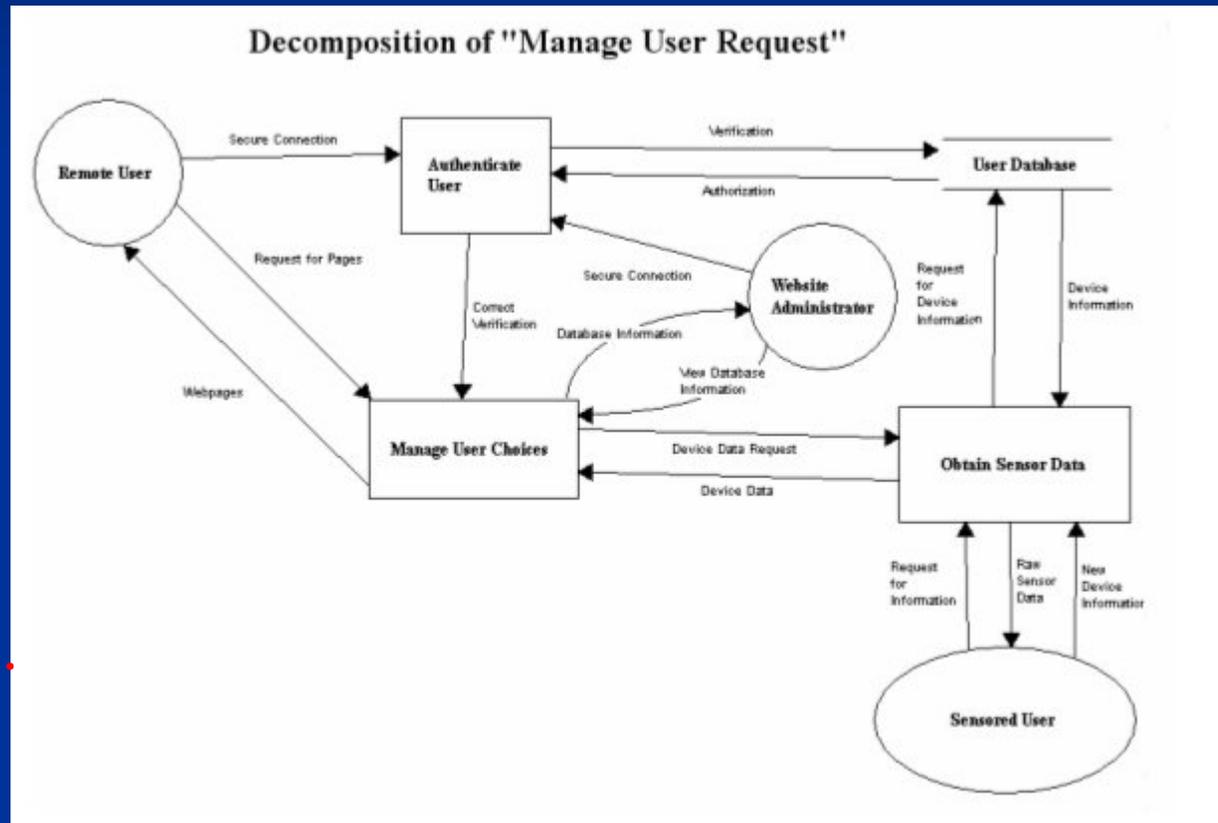
# System Administrator

- Has total control over the server our program runs on
- Can install or remove our software as needed and maintain the server
- Sets up access privileges for the Website Administrator and others as needed
- Can access any information and make any changes, but it is not his/her job to interact with users or make changes

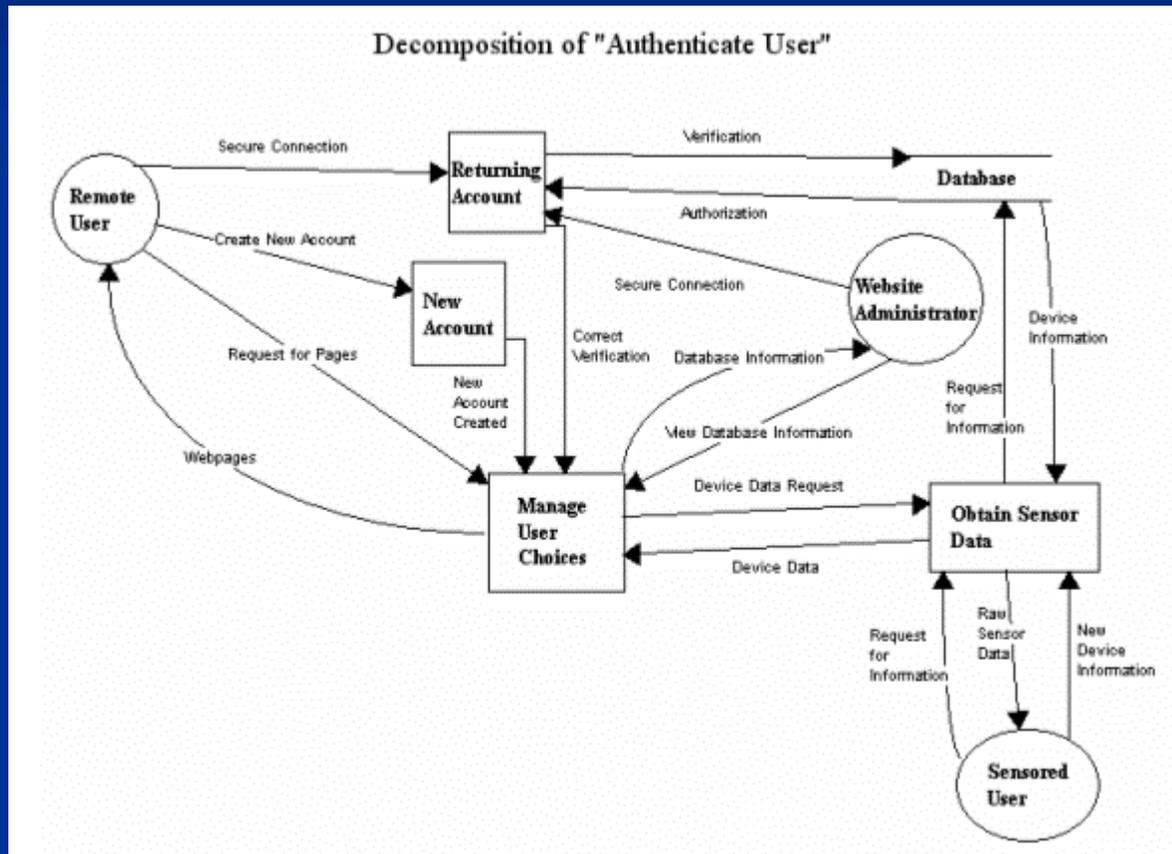
# Context Diagram



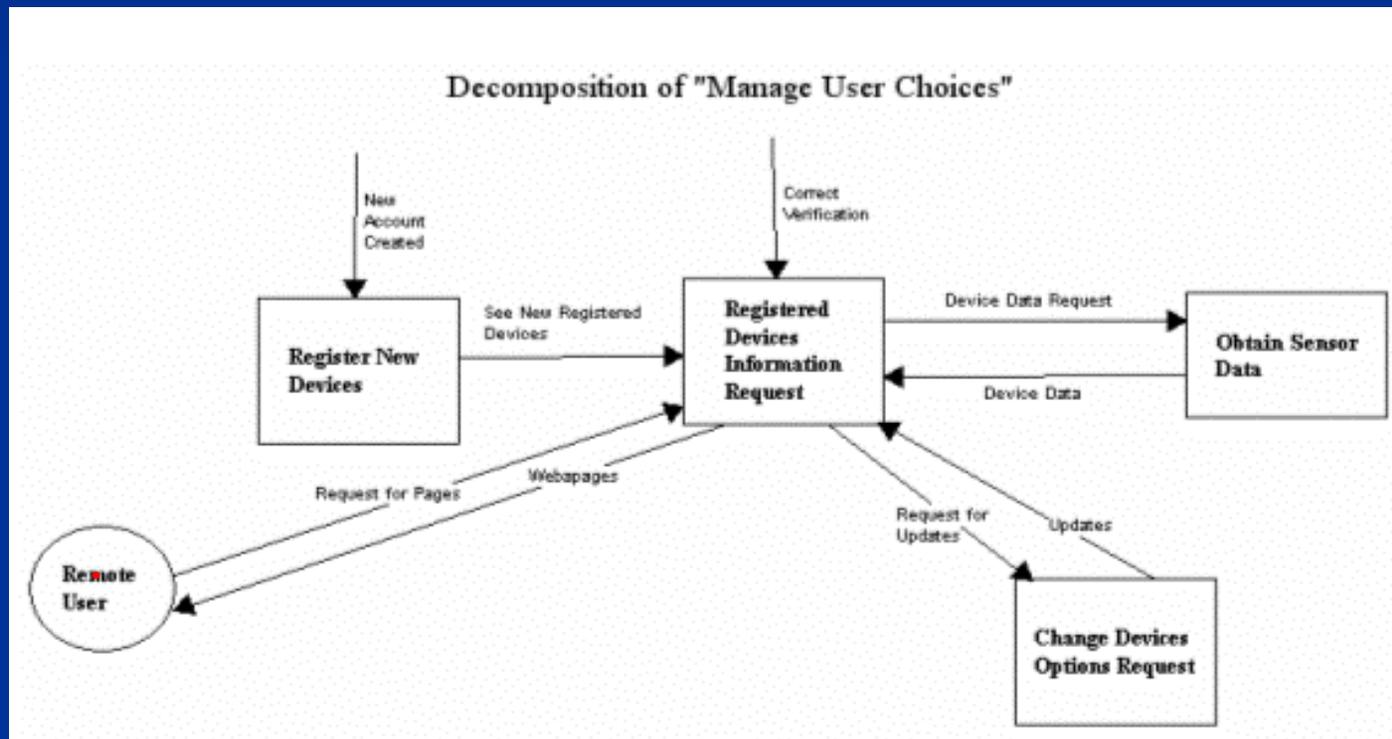
# Decomposition of Manage User Request



# Decomposition of Authenticate User



# Decomposition of Manage User Choices



# Home Page



[Home](#)

[Registration](#)

[Login](#)

[FAQ](#)

[About](#)

Welcome, please log in.

Username:

Password:

Forgotten Password? [Click Here](#)

New User? [Click Here](#)

## User Testimonials

- Stupencous product! I've never felt safer!  
[Click for more...](#)

## Important Information

- Mirimum system requirement have been posted [here](#).
- Check [FAQ](#) for supported devices before using our service.

## News Updates

- Supported devices have been updated. Check the [FAQ](#)

# User Home Page

[Home](#)[Registration](#)[Login](#)[FAQ](#)[About](#)

## Account Home Page

Welcome Mr. Swarner,

**Location:** Office

<b>Sensors:</b>	<b>Reading</b>	<b>Status</b>
Thermometer	<u>Temp 72 C</u>	Enabled
Water Sensor	Dry	Enabled

**Location:** Home

<b>Sensors:</b>	<b>Reading</b>	<b>Status</b>
Motion Detector	No Motion	Enabled

For additional Device information [click here](#) for Monitor Summary page.

[Click here](#) to add a new device.

[Click here](#) to remove a current device.

Adjust warnings for a device on the [Events to Log page](#).

# Device Alert Settings



[Home](#)

[Registration](#)

[Login](#)

[FAQ](#)

[About](#)

## Device Alert Settings

Temperature #1

Acceptable Range

F to  F

•  
Grace range of +/-  F

# Logs by Device

[Home](#)[Registration](#)[Login/Logout](#)[FAQ](#)[About](#)

## Logs by Device

**Thermometer #1 (Home)** [Click for More](#)

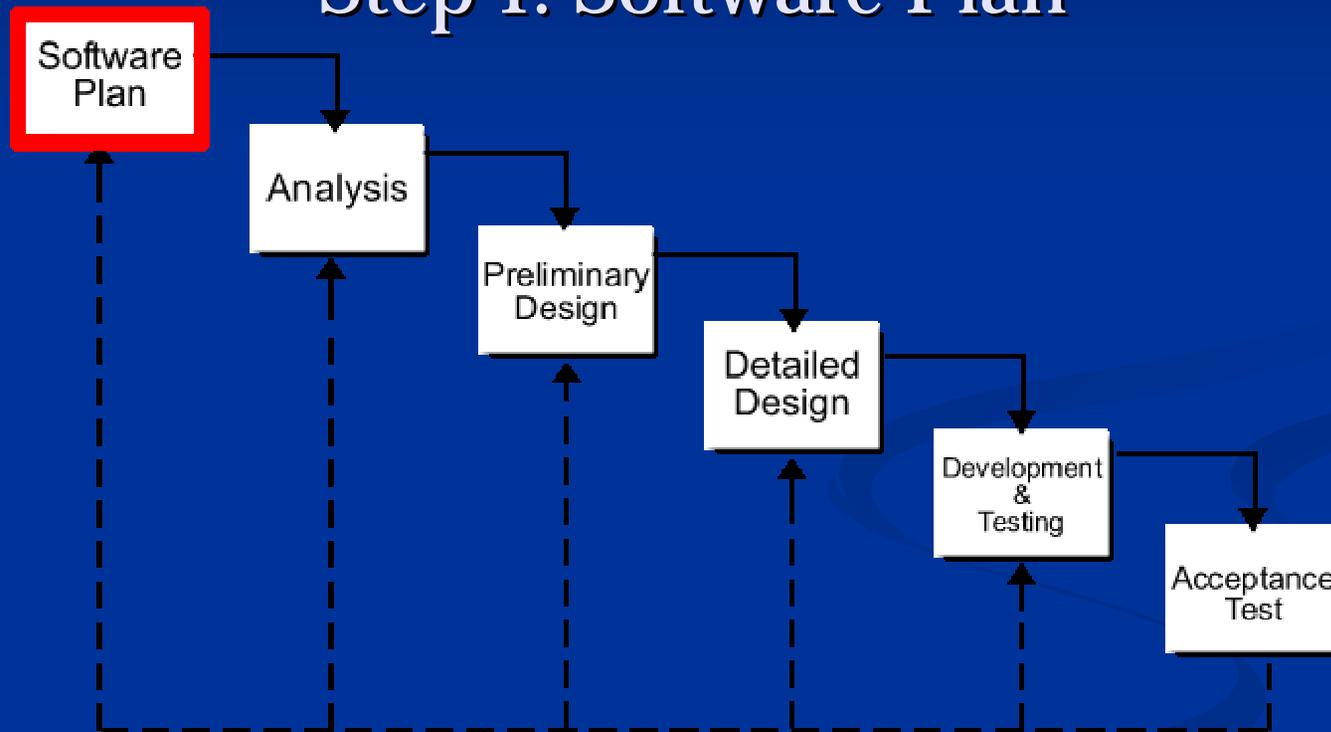
8/1/05 4:53:09 Am	Timed Reading	73.2 F	Temperature #1
8/1/05 3:53:09 Am	Timed Reading	73.1 F	Temperature #1
8/1/05 3:15:09 Am	Warning	69.0 F	Temperature #1
8/1/05 2:53:09 Am	Timed Reading	73.2 F	Temperature #1

**Thermometer #2 (Office)** [Click for More](#)

8/1/05 4:53:09 Am	Timed Reading	73.2 F	Temperature #1
8/1/05 3:53:09 Am	Timed Reading	73.1 F	Temperature #1
8/1/05 3:15:09 Am	Timed Reading	69.0 F	Temperature #1
8/1/05 2:53:09 Am	Timed Reading	73.2 F	Temperature #1

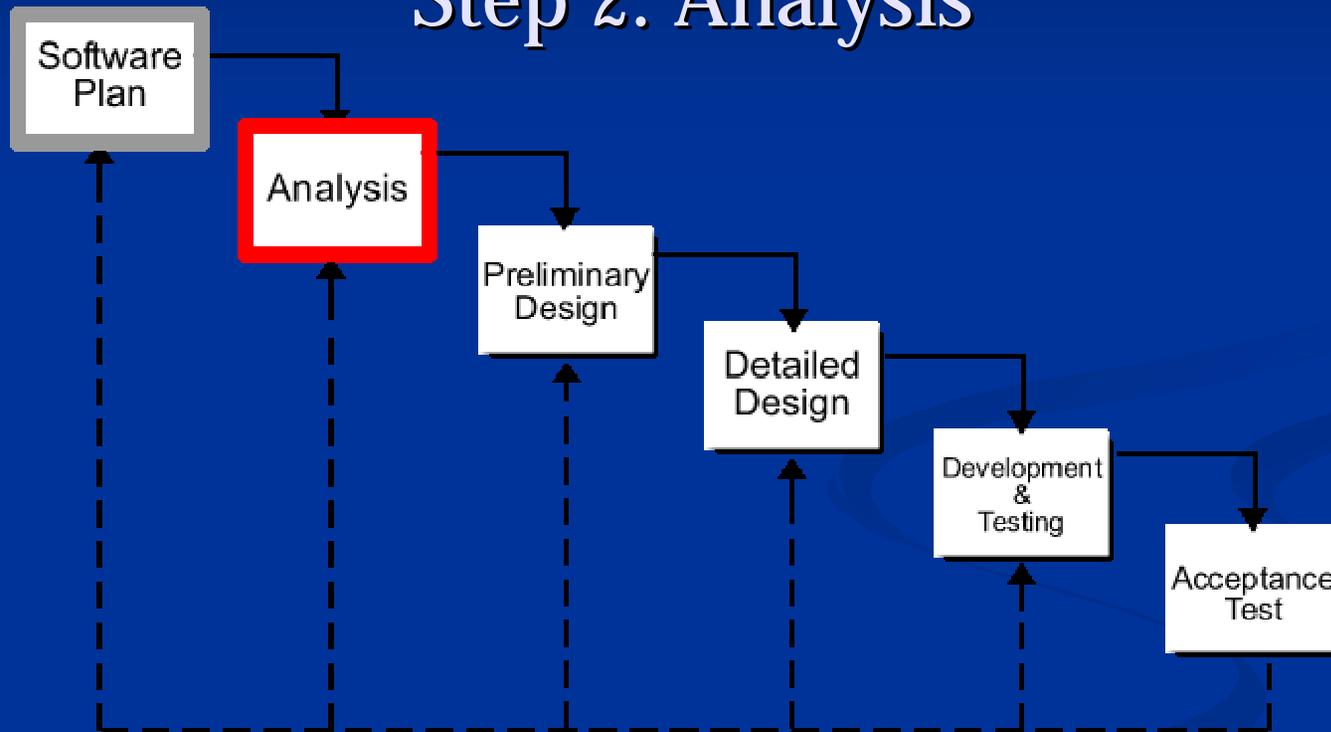
# Classic Waterfall Model

## Step 1: Software Plan



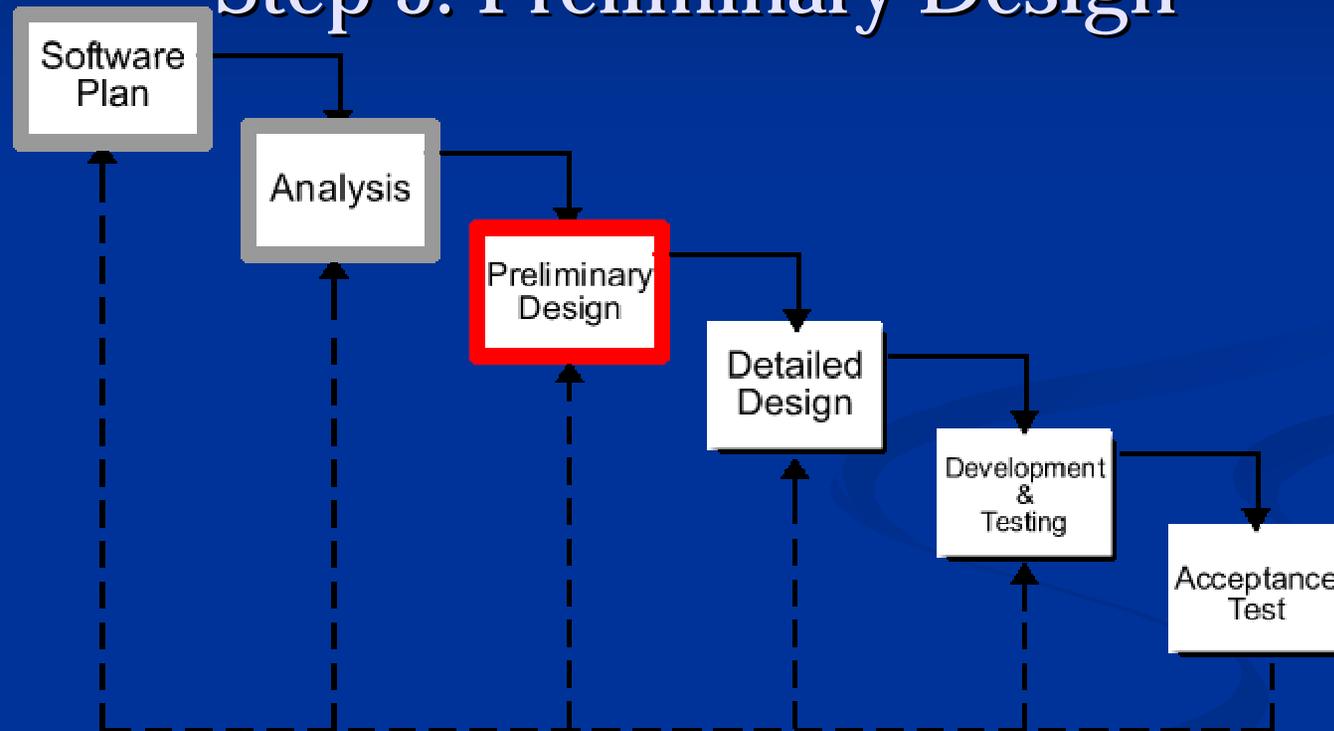
# Classic Waterfall Model

## Step 2: Analysis



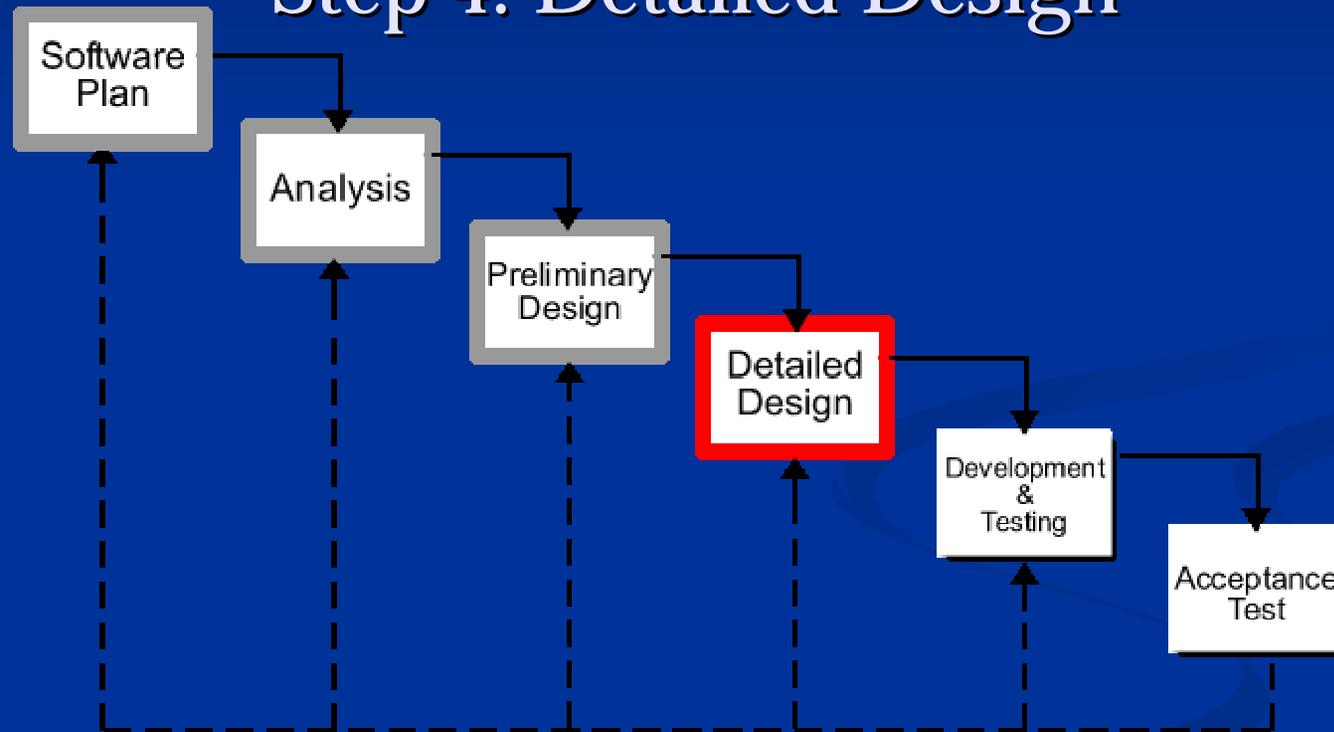
# Classic Waterfall Model

## Step 3: Preliminary Design



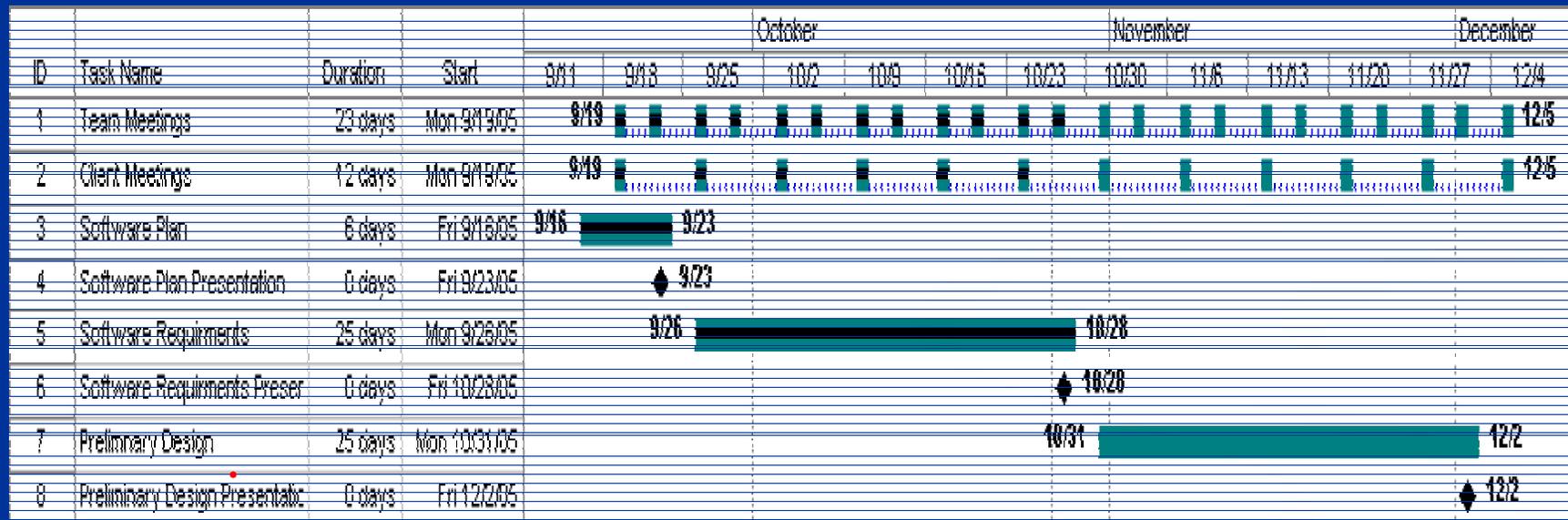
# Classic Waterfall Model

## Step 4: Detailed Design



# Gantt Chart

## Development Plan



# Essential Documents

- Software Requirement Specifications

- Document Due: October 24, 2005
- Date of Presentation: October 28, 2005

- Software Preliminary Design

- Document Due: November 28, 2005
- Date of Presentation: November 30, 2005

# Summary & Questions

Any Questions?