

Environmental Monitoring System

Requirements Specification

by

SaintSoft

Welcome

Mr. Kenneth Swarner

Computer Science System

Administrator, Siena College

&

Dr. Timoth Lederman

Professor of Computer Science,

Siena College

SaintSoft Team Organization

- Daniel Schuldt - *Team Leader*
- David Moore - *Systems Administrator*
- Christian Damberg – *Webmaster*
- Hannah Palmer – *Librarian*
- Lioubov Mikhailova - *Design Consultant*
- Tina Ting - *Software Developer*

Agenda

- Introduction - Daniel Schuldt
- Functional Requirements - Hannah Palmer
- Prototypes - Tina Ting
- Data Flow Diagrams - Lioubov Mikhailova
- Conclusion - Daniel Schuldt

Functional Requirements

Hannah Palmer

Functional Requirements

Remote Client

- Provide an online page for login purposes.
- Provide an online page that displays information from the sensors.

Functional Requirements

Monitored Client

- Provide an online page for login purposes.
- Provide an online page that displays information from the sensors.
- Provide an online page that will allow for user profile changes.
- Provide an online page that will allow for changes to sensor preferences.

Functional Requirements cont'd.

Administrator

- Provide an online page to login.
- Provide an online page to access logged data related to users.
- Provide an online page to access logged data related to attached devices.

Prototypes

Tina Ting

User Login Screen

Welcome to Environmental Monitoring System

NEWS

New Microphone Sensor developed. Click [here](#) for more details

More than 5,000 customers now have the Environmental Monitoring System.

[more...](#)

User Name:

Password:

Login

Forgot password? Click [here](#) to recover
Don't have a User Name? Click [here](#) to register.

Preference Screen

monitored computer only

NOTICE: Do not register the device unless this computer will be the computer with sensors attached to it!!


Contact Information:

First Name:

Last Name:

Address Information:

Street:

City: State:  Zip:

Phone: - ext:

Preferences cont'd.

Account Information:

E-mail:

Password: Retype Password:

Security Question: ? Answer:

Monitoring Location:

Notification Information:

E-mail Address: Same as above

Cell Phone: -

Default: Cell Phone E-mail

Initial Screen

Welcome Mr. Ken Swarner

you are located at: Home

IP: 192.168.0.1

Personal Profile

Log Out

You currently have no sensors registered. Click [here](#) to register a sensor.

Registrant Sensor Screen

Registrant Sensor Screen:

Owner of Sensor:

Location:

IP Address:

Operating System:

Sensor Type: ▼

Monitored User Screen

Welcome Mr. Ken Swarner

you are located at: Home

IP: 192.168.0.1

[Personal Profile](#)

[Log Out](#)

Sensors:

Temperature Sensor Office

Current Temperature:

Status: **ACTIVE**

55°F

[Alert History](#)

[Device Options](#)

Motion Sensor Home

Status: **ACTIVE**

[Alert History](#)

[Device Options](#)



Water Sensor Home

ERROR – Device is not responding

Status: **DISABLED**

[Alert History](#)

[Device Options](#)

[Refresh Devices](#)

Click [here](#) to register/delete a sensor.

Remote User Screen

Welcome Mr. Ken Swarner

you are located at: Remote IP: 66.125.8.10

Log Out

Sensors:

Temperature Sensor Office Status: **ACTIVE**
Current Temperature: 55°F

Alert History

Motion Sensor Home Status: **ACTIVE**

Alert History



Water Sensor Home Status: **DISABLED**
ERROR- Device is not responding

Alert History

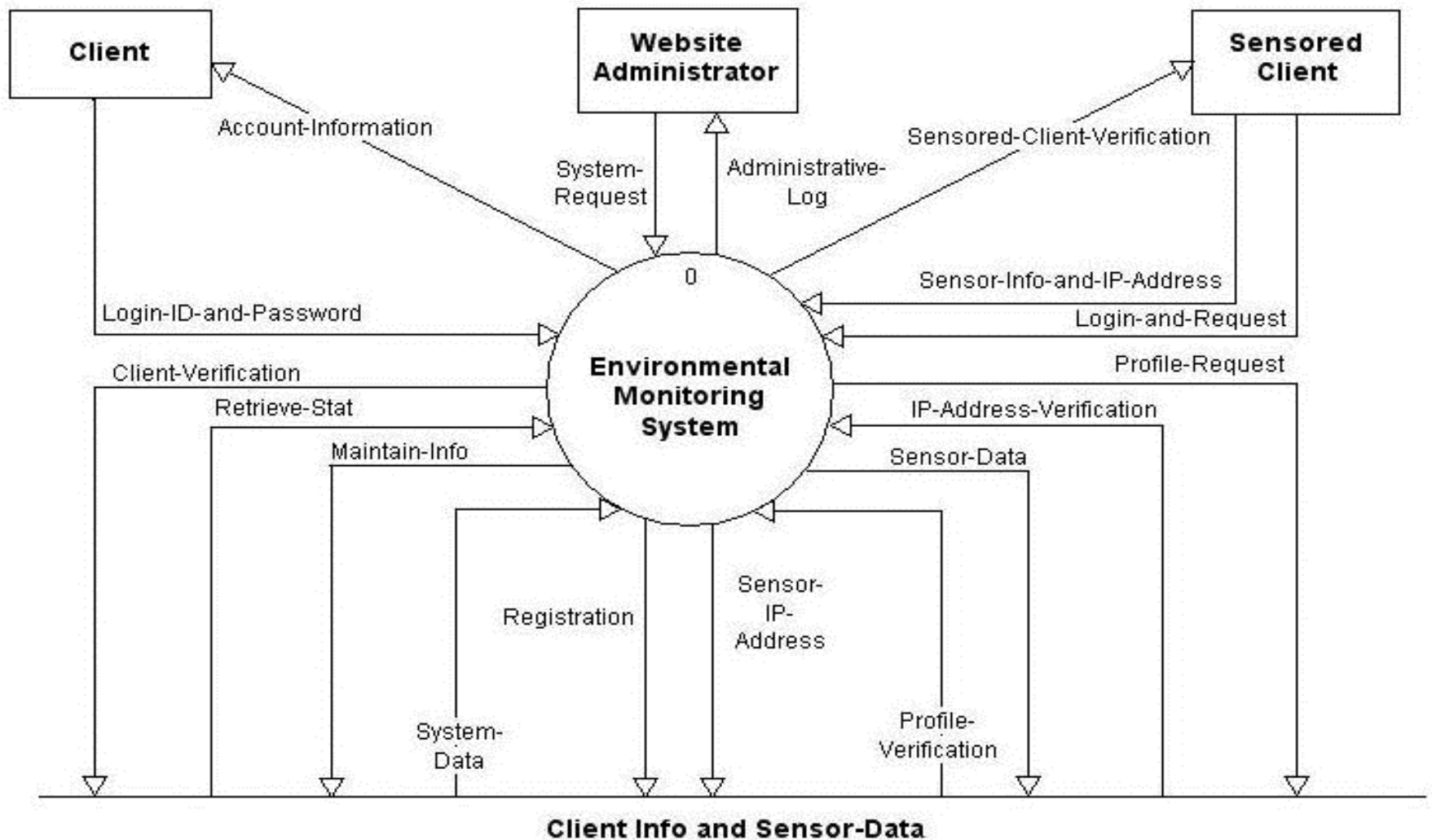
[Refresh Devices](#)

Click [here](#) to register/delete a sensor.

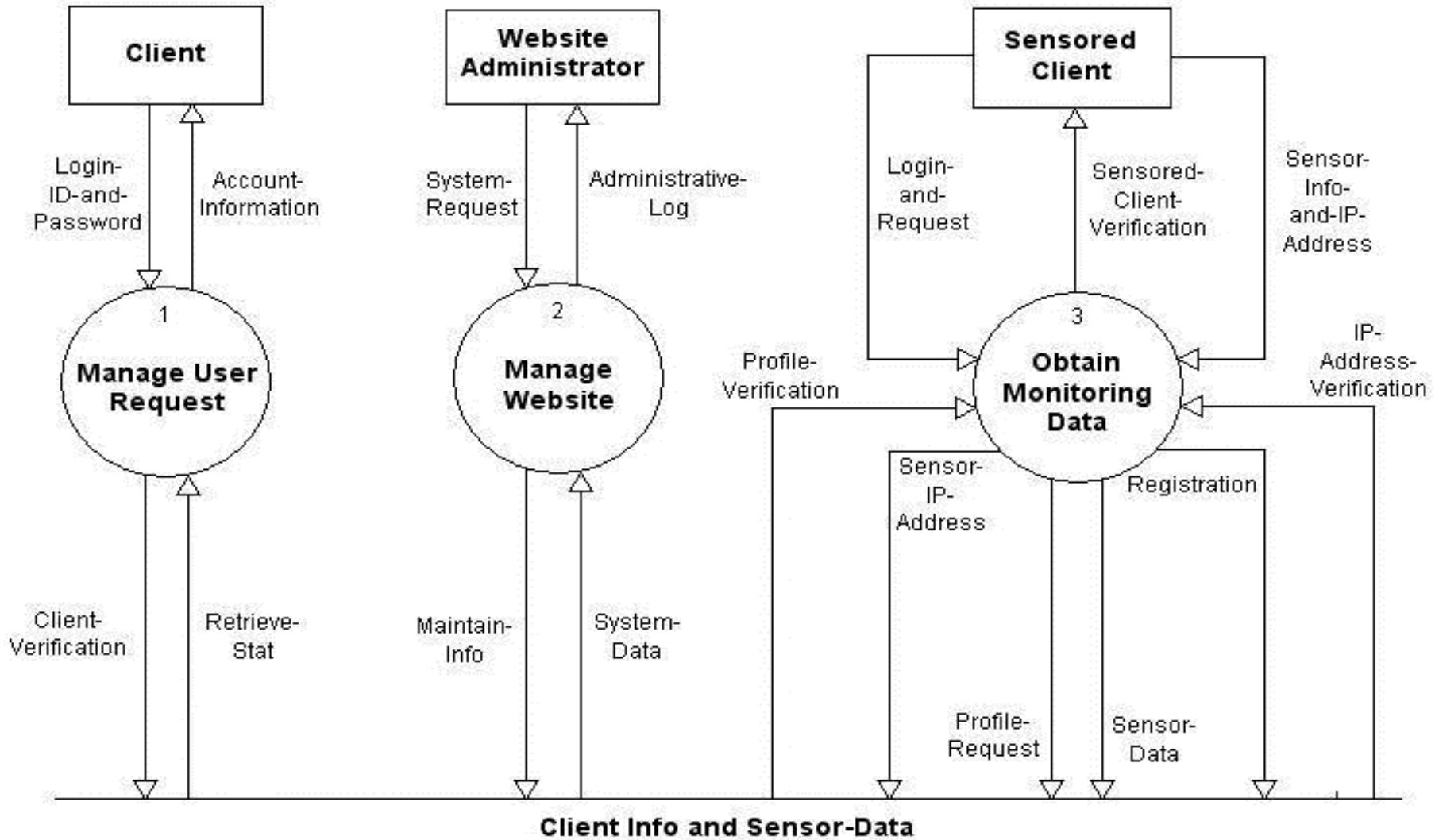
Data Flow Diagrams

Lioubov Mikhailova

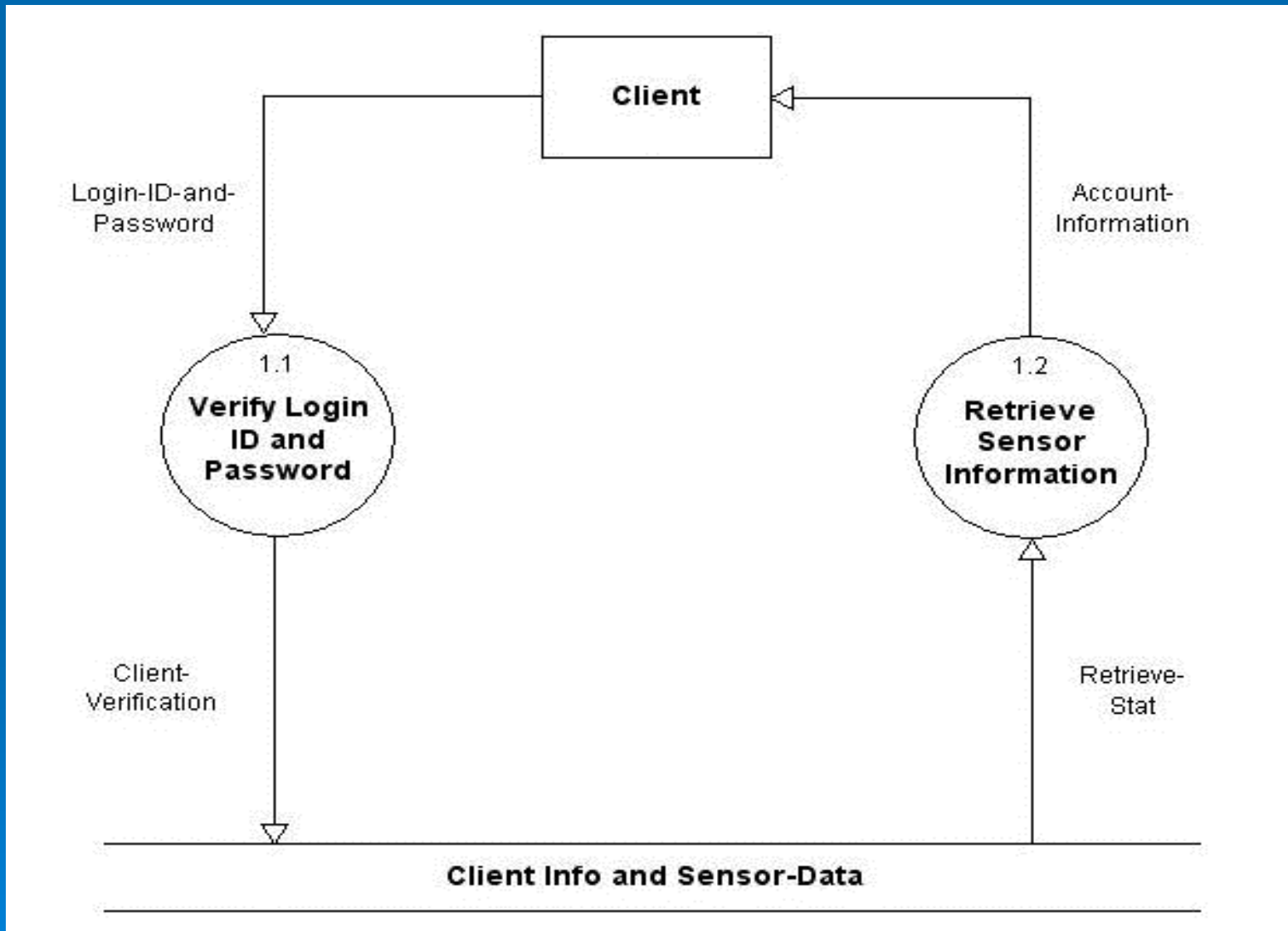
Context Diagram



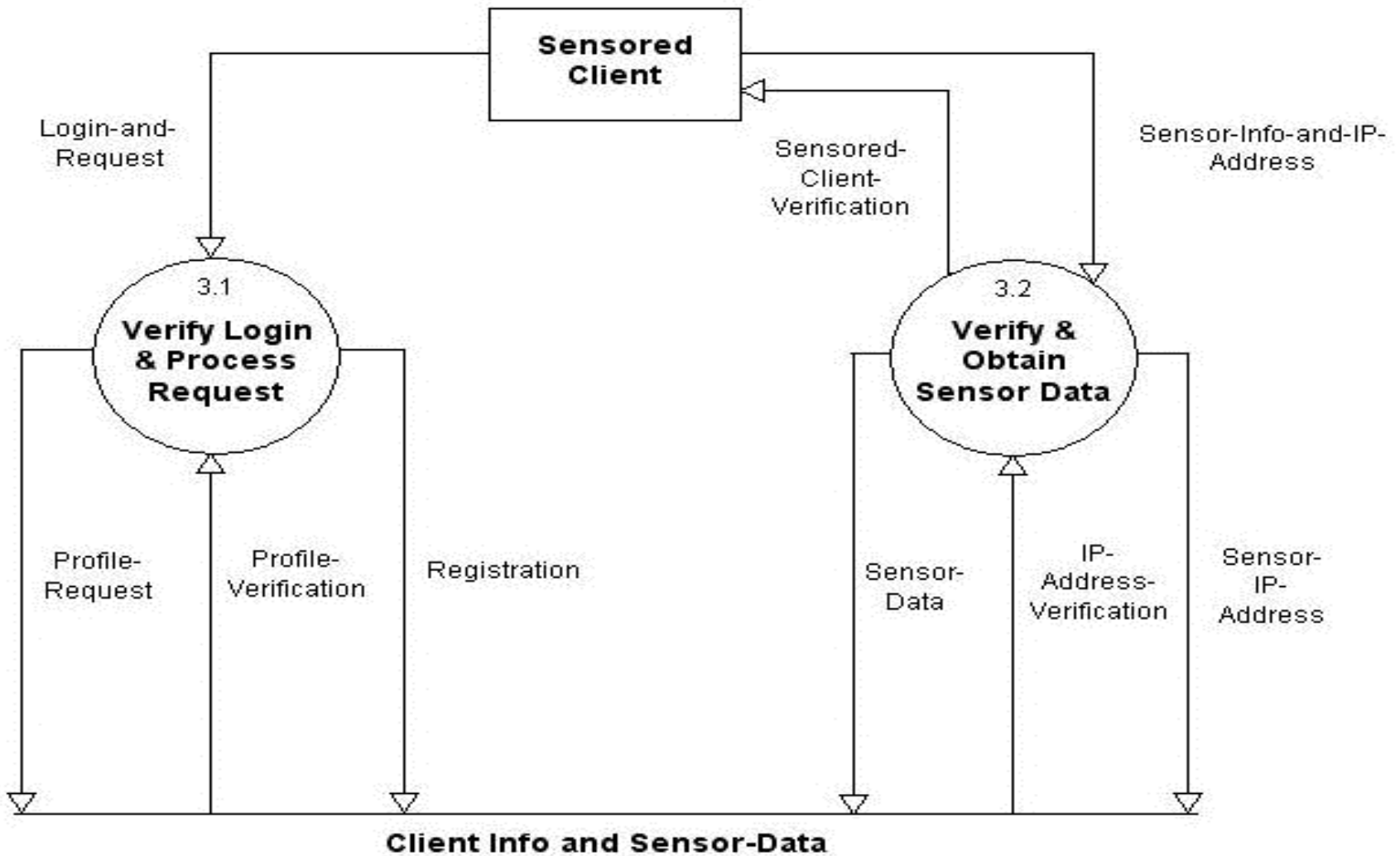
Level 0



Level 1



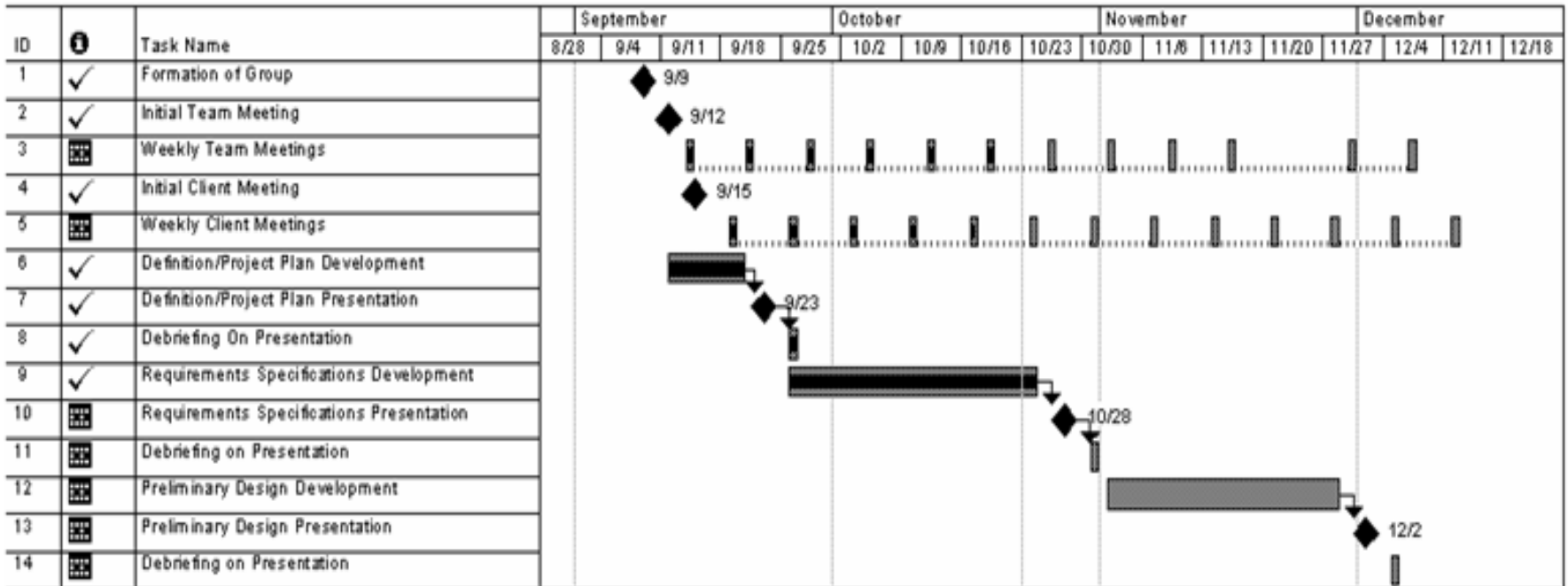
Level 3






Conclusion

Daniel Schuldt

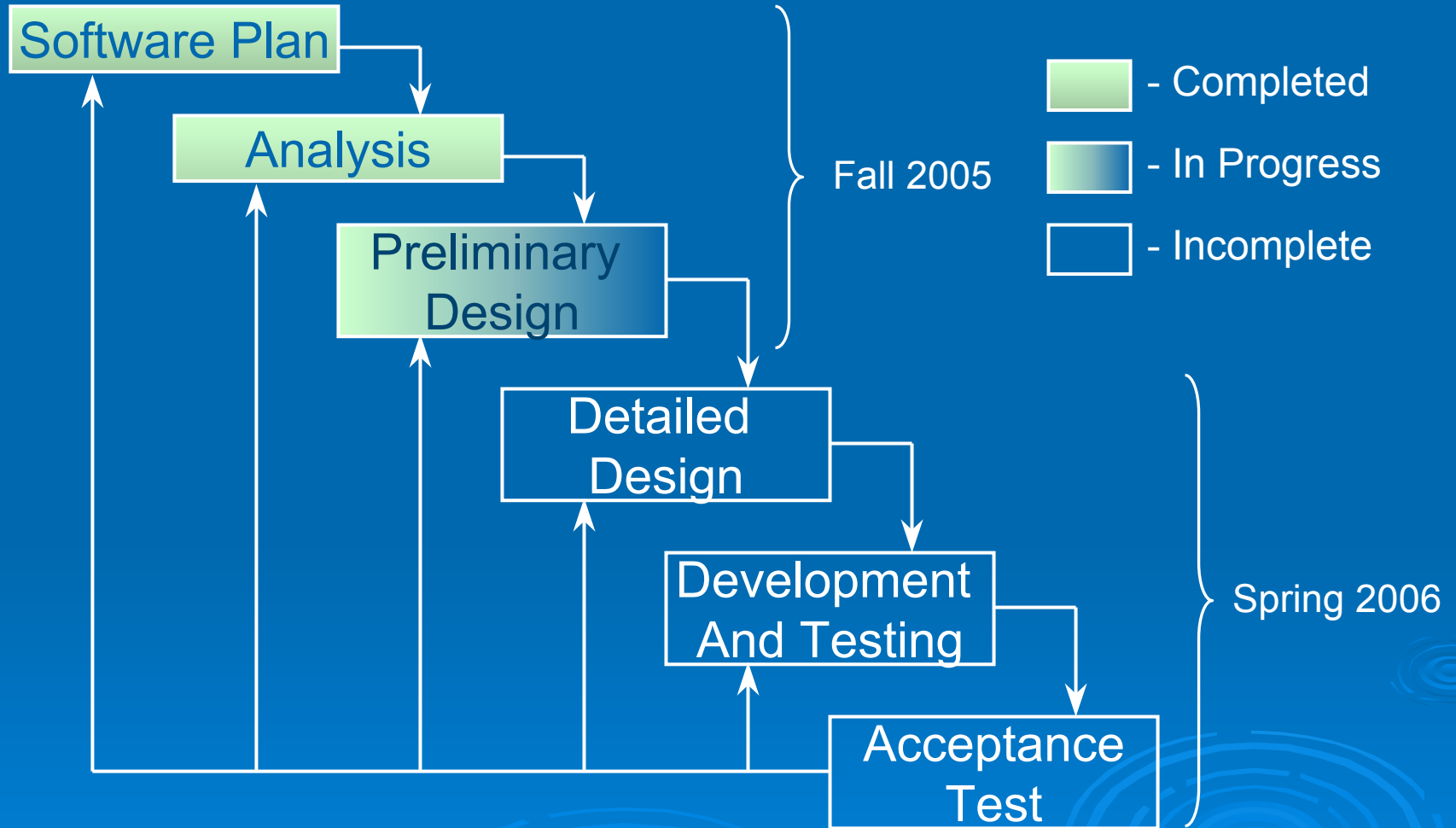
Development Schedule



Project: SaintSoft
Date: Sun 10/23/05

Task  Progress  Milestone 

Project Plan



Thank You!

Any Questions?