Reservoir Management System
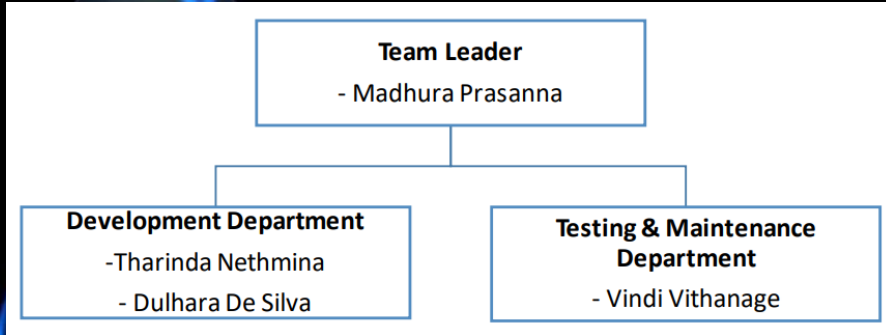
Progress Review Presentation

EEY4189 Software Design
Group Name : Bluelight Suites
Group Cluster : 6.1

We are Unique

Bluelight Suites

Bluelight Suites

Team Leader

- Madhura Prasanna

Development Department

-Tharinda Nethmina

- Dulhara De Silva

Testing & Maintenance Department

- Vindi Vithanage

Work Distribution	Team Members
Project Planning	All Members
Project Idea Presentation	- Prepare Presentation – Tharinda - Ideas & Support – All Members
Project Proposal	All Members
Visit Client (Meeting with first client)	All Members
Requirement Specification	All Members
Designing / Prototyping	Dulhara & Tharinda
Software Development	All Members
Progress Review Presentation	All Members
Testing	Vindi
Implementation & Integration	Madhura
Integration Report	All Members
Launch Software	All Members
Training the Staff	All Members
Operation & Maintenance	All Members
Final Report	All Members
Final Presentation	All Members

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Project Idea

Development of software for water management of medium and small scale reservoirs under the control of Irrigation Department.

- Ability to update real time data of water issued from the reservoirs
- Ability to update real time water capacity of the reservoirs
- Monitoring and comparing real time data of cultivation plan vs water issued
- Deliver management support data for making decisions
- Enhance data availability in the reservoirs

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Project Background

- Lack of information & data

- Unavailability of a proper model

- Data required for Engineers, Engineer Assistance and
  Technical Officers

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Project Scope

1) <u>Introduction</u>

- There is no Reservoir Management System yet

- Increases data accuracy & real time updates

- Enhance Productivity

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2) Project Needs

- Establish a project timeline

- Project resources allocation

Planning Stage	Planning Stage	
	Project Idea Presentation	
	Project Proposal	Sep 01 - 20
Feasibility or Requirements of Analysis	Visit Client	
	Requirement Analysis	
	Requirement specification	
	Requirement Analysis	Sep20- Oct 15
Design Stage	User Interface	
	System interfaces	
	Network and network requirements	
	Databases	Oct15 - Oct25
Development Stage	software Development	Oct25- Dec10
Testing stage	Beta version	
	Testing	Dec10 - Dec20
Implementation and Maintenance Stage	Implementation	
	Integration	
	integration Report	
	Maintenance	Dec20 - Jan10
Final	Lunch software	
	Traning the staff	
	Final Report	Jan10 - Jan30

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3) Project Objectives

- Specific - Development of a simple, user friendly interface and all related data are displayed

- Measurable - Developing the software firstly for one reservoir and then the system should be introduced to the remaining reservoirs in the next 6 months and should be networked among each other

- Achievable - System should be developed to one reservoir, should connect with the other reservoirs, performing the testing phase, training the staff

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- Relevant - Developing a data management system for the Water Management of the Irrigation Department. It helps our team to get establish as a company and there is no existing system

- Time-bound
    - 3 months - Developing for one reservoir
    - 6 months - Expand the system for all the reservoirs

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4) Project Exceptions

- Price - Free of Charge

- Quality Assurance Requirements
  - Analyse Productivity
  - Prototype Testing
  - Patches Planning Schedule
  - 24/7 supporting for the client

- Availability - Can be accessible through the internet anytime

- Policy - Password Policy

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5) Project Constraints

- Infrastructure - Consists of systems of policies, standards, procedures and guidelines that define how project management work is to be performed.

- Technical Glitches - An error or defect, especially in a computer program or system, bug, error or fault.

- Lack of Resources

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Project Progress

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Design

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Activity	P / A	September					October					November					December				
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Project Planning	P																				
	A																				
Project Idea Presentation	P																				
	A																				
Project Proposal	P																				
	A																				
Visit Client (Meeting with the first client)	P																				
	A																				
Requirement Analysis	P																				
	A																				
Requirement Specification	P																				
	A																				
Designing / Prototyping	P																				
	A																				
Software Development	P																				
	A																				
Beta Version Release	P																				
	A																				
Testing	P																				
	A																				
Progress Review Presentation	P																				
	A																				
Alpha Version Release	P																				
	A																				
Testing	P																				
	A																				
Implementation and Integration	P																				
	A																				
Integration Report	P																				
	A																				
Launch Software	P																				
	A																				
Training the Staff	P																				
	A																				
Operation and Maintenance	P																				
	A																				
Final Report	P																				
	A																				
Final Presentation	P																				
	A																				

P - Planning
A - Actual

Progress of the Project Implementation
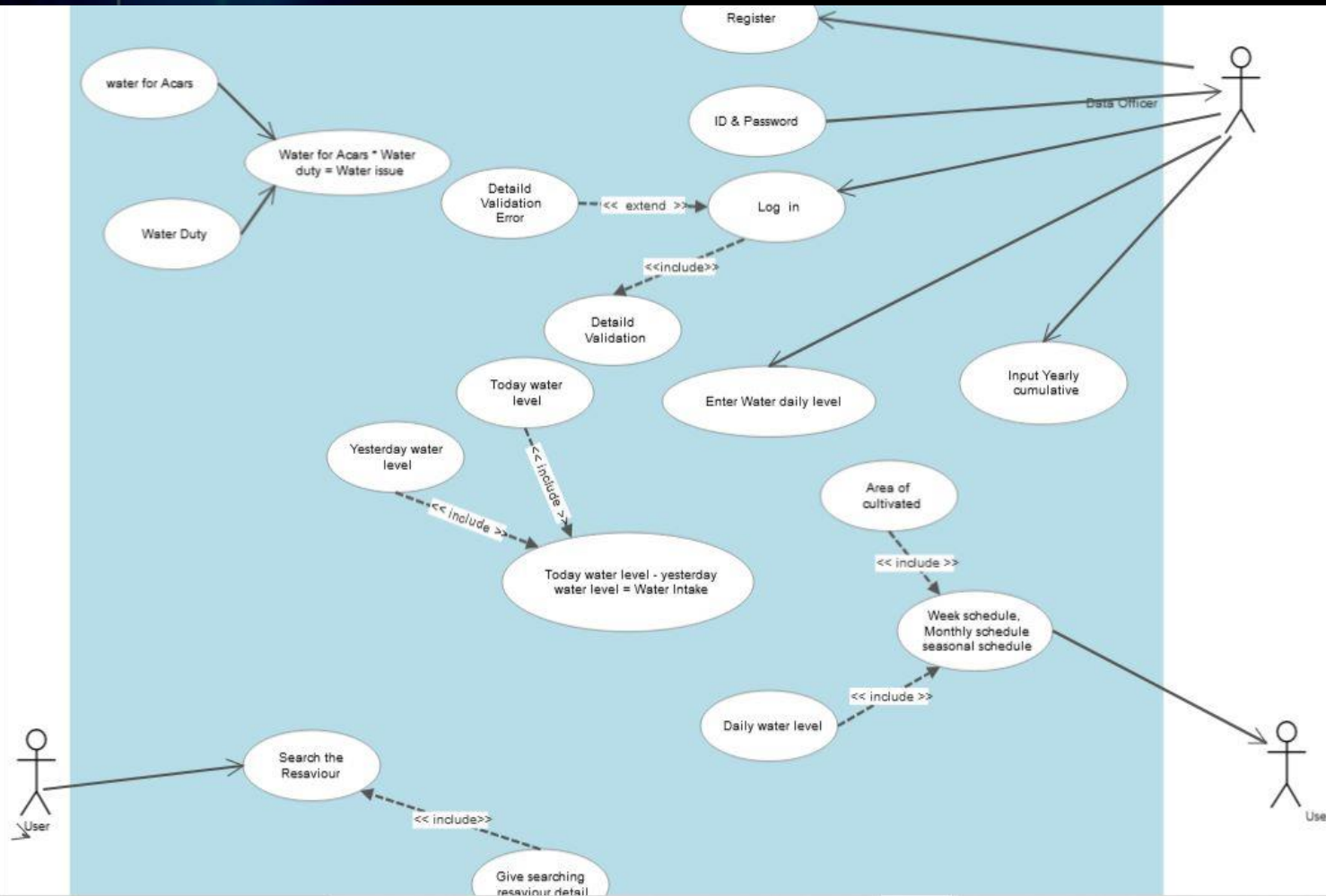
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Important Sections of SRS

Functional requirements

- Data Input
- Calculation
- Schedule
- Information Display
- Generate Report
- Warning Message
- Logging Control

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Use Case Diagram

Non-Functional Requirements

- Performance and Load Requirement
- Compatibility Requirements
- External Interface Requirements
  - Hardware Interfaces Requirements
  - Software Interfaces Requirements
  - Communications Interfaces Requirements
- Security and Authentication requirements
- Quality Assurance Requirements
- Development Requirements
- Deployment Requirements
- Usability Requirements

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- # Reflective Journal

Reflective Journal - Update at least every two | cites.openlearn.lk/mod/journal/view.php?id=9187

CITES Quick Links ▾ Mobile app   G.L.D.A. Desilva ▾

Start or edit my journal entry

Milestone 0 - Preparation for the course

What happened?

Since I am a batch 2 student, until the batch 3 students reach our level, we were given a chance to follow the Software Design course even though the pre-requisites have not been completed yet since the exam results have not been released. The coordinators allowed the students with the required credit level to carry out the course, and if a student failed to obtain the pre-requisites after the exam results are released, they can still continue the course but their results will be released only if they pass the pre-requisites needed by following the failed courses again. We had 2 workshops for this course. They are, UX Designing and Idea Generation. We were supposed to form groups of 4 members and a mentor will be assigned to each and every group. If a student was not able to form a group, the coordinators will assign them to a group. The introduction to the course and how to carry on the tasks were explained.

How you felt, your thoughts and how you behaved in that situation?

Felt like a difficult task to carry out, since I do not have experience in designing and implementing a software. There is so much to learn in the implementation phase when getting the desired output. Had experience in the requirement gathering phase because of the Software Engineering Concepts course, but felt when working as a team we can overcome all the barriers by discussing with one another and collaboration in between the team members.

How it should have been done? Based in the implications

Search for other projects which was uploaded in the internet to get and idea of doing our project. Contact anyone who has a knowledge in project management and get information on how to do the project such as the dividing the tasks, tracking the progress etc.

How to do it differently in the future with suggested improvements?

Research on more projects before starting the course. Get an idea of how to track the progress using project tracking tools. Get an idea on how to connect web interfaces with the programming language that you are using to develop the software

Milestone 1 - Form Groups

What happened?

Discussed with the friends about the course and whether they are interested in doing the course in Cycle 1, and formed groups. The LMS was down at that moment for a certain period of time, and one of our friend was unable to check whether she has got access to the course. Other group members carried on completing the tasks which was to submit the Project Idea Presentation until she confirms her participation in the Cycle 1 with our group. The deadline to submit the Project Idea Presentation along with an explanation of the Project Idea and the Social Contribution was extended until Friday, 23rd of September 2022. The LMS was restored back again and our friend mentioned about her accessibility to the course and told that she is also joining with the team. We divided the tasks among the group members, arranged a meeting via WhatsApp to discuss further issues, re checked the presentation for any errors, created and added our logo to the presentation, created a name to our team and to our developing system.

How you felt, your thoughts and how you behaved in that situation?

Felt a little bit unstable about the team as one is not sure of having access to the course, but kept on hoping. Continued on our tasks until she confirms her participation. Felt a little bit stressful as we were not completed in preparing the presentation.

How it should have been done? Based on the implications

Should have started the presentation earlier to avoid stressful situations, careless mistakes and also everyone should check the LMS frequently to avoid any hassle.

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How to do it differently in the future with suggested improvements?

The tasks to be done should be divided in between the team members and has to be started early, so that the other team members can even re-check them and identify and point out if there are any errors present. Team members should frequently contact each other to check the progress.

Milestone 2 - Assignment of Mentors

What happened?

After the submission of the Project Idea we were supposed to choose a mentor who can guide us throughout the course. We discussed among the team members and chose the mentor Mr. Lahiru Fernando and our cluster was 6.1. All the team members should choose the same group in the choices provided. There were choices arranged for the students who doesn't have a group, and also more choices for groups were arranged since there are a lot of groups.

How you felt, your thoughts and how you behaved in that situation?

All the mentors assigned was good and we had a hard time in selecting a mentor, but with the discussions of the team members, all agreed upon selecting Mr. Lahiru Fernando to be our mentor.

How it should have been done? Based on the implications

It should also be done by discussing with team members. Also before selecting we should have search the background of the mentor in the Software Engineering side

How to do it differently in the future with suggested improvements?

The background related to Software Designing of the mentor should be examined, and the projects done, how they are done, therefore, we can also use them when designing our software

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- GIT Repository
- Monthly retrospective & CMMI meeting minutes
- Governance tools
- Project Proposal, SRS, Progress Review Presentation