Project 1

CIS 422/522 Software Methodologies

Group 5 - 4-23-2020

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Project Plan

A management plan. How is your team organized? How is the work divided among team members? How does your team make decisions? How will your team meet and how will it communicate?

- Group Meetings are done via Microsoft Teams audio calls.
  - Most non-meeting discussion takes place in the Microsoft Teams chat.
  - We have exchanged phone numbers and emails as well.
- We have hard scheduled meetings Tuesdays and Thursdays at 3:30pm. We have a hard scheduled meeting every Sunday at our weekly-determined best time. All other meetings are scheduled as seen necessary at our most convenient times.
- Our group makes decisions via our Microsoft Teams audio calls. We don't really have a group leader for our meetings, we move together from bullet point to bullet point. So we decide as a group when decisions need to be made. Hearing other people's input can be helpful because we often hear ideas that we may not have considered.

Work breakdown schedule (with > 10 milestones) and project schedule (who will do what).

Task	Assignment	Completion date
V1 of SRS	Group Work	2020-04-10
V1 of SDS	Group Work	2020-04-15
Project plan	Group Work	2020-04-15

Database pre-v1 implementation	MF, MJ	2020-04-19
IOS app pre-v1 impl.	IF, SF, SW	2020-04-19
Database v1 designed	MF, MJ	TBD
IOS app v1 designed	IF, SF, SW	TBD
Transmit data from app to database (testing)	Group Work	TBD
V2 of SRS	Group Work	TBD
V2 of SDS	Group Work	TBD
Polish database (v2)	MF, MJ	TBD
Polish app (v2)	IF, SF, SW	TBD
Backup database implementation	<mark>IF/TBD</mark>	TBD
Finalize database and all its functions (v3)	MF, MJ	TBD
Finalize IOS application (v3)	IF, SF, SW	TBD
Visual website implementation	<mark>MJ/TBD</mark>	TBD
Testing plan	Group Work	TBD
V3 of SRS	Group Work	TBD
V3 of SDS	Group Work	TBD

Monitoring and reporting: How individual and project progress will be monitored to keep track of who did what and when did they do it?

- Personal progress will be tracked via individual descriptive timesheets

- ○ Stored in repo: documentation/Timesheets/
- ● Project progress will be tracked via "Task_and_Assignment_Breakdown.xlsx"

A build plan. What is the sequence of steps you will take to build the system? When will each "build" of the system take place

- ● Requirement analysis
  - ○ Project Week 1: 1st and 2nd Group meeting.
- ● Design
  - ○ Project Week 2: 3rd and 4th Group meeting.
- ● Implementation
  - ○ Starting at the end of Project Week 2.
- ● Testing
  - ○ After we have our implementation done, tentative goal: April 24th.
  - ○ Testing must finish on April 26th.
- ● Maintenance
  - ○ Maintenance will continue through Project 2.

A rationale for the build plan. Why have you broken the system into these parts, and why have you chosen these particular steps to build the system? What are your risks and your risk reduction strategies?

- ● Requirement analysis
  - ○ This part of the plan allows for better understanding of the project, and allows for research into components that may be added.
  - ○ **Risk**: Requirements are misunderstood and the final project does not fulfill requirements
  - ○ **Risk Reduction Strategy:** Each group member read over the system requirements document to ensure the requirements were understood and met.
- ● Design
  - ○ To filter through possible implementations discovered in the analysis, we must discuss the design of the system. This will allow for more research into specific resources we will be utilizing in the implementation.
  - ○ **Risk**: The design is flawed, and we don't realize until the implementation stage
  - ○ **Risk Reduction Strategy:** Explicitly write out the components and how they interact with each other in the SDS to ensure compatibility
- ● Implementation
  - ○ The designs must be developed to deliver a system.
  - ○ **Risk**: The system does not operate to specified designs, thus does not function as needed.
  - ○ **Risk Reduction Strategy**: We will have the Testing phase in order to address any design deviations.

- Testing
    - To avoid any bugs and unnecessary resource draw we will test the system for functionality. If any issues arise we will document them, isolate them, and fix them in order to deliver a complete system.
    - **Risk**: The testing plan does not capture all bugs, and the system has unforeseen issues.
    - **Risk Reduction Strategy**: The testing plan will be revised and reviewed to reduce risk of bugs. The testing will then be applied again.
- Maintenance
    - Addressing issues that arise in the Testing phase, we will redesign our system to have the desired functionality.
    - **Risk:** The database storing user data fails
    - **Risk Reduction Strategy:** Have a backup of the database that backs up the primary database every 12 hours to ensure no more than a day of data is ever lost.