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Project Plan Version 1.0

Group 2

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Contents

Purpose of Project Plan:

The project plan clarifies and defines the project mandate. It establishes the direction of the project and provides a basis for measuring project progress and performance. It defines project context, criteria for success, purpose, objective, scope, assumptions, constraints, risks, etc. The project plan identifies the involved members and their level of commitment, in terms of resources, time and work processes.

The project plan is critical for project success. It provides us with a tool to ensure that the project is well-defined and likely to succeed, and clients and users know in advance what they can expect from the project. The plan establishes a foundation for measuring project performance, progress, and the quality of project results and defines the criteria for success in terms of required work products, quality of results, and target dates for delivery of work products. It also minimizes surprises events so that late deliveries or cost overruns can be minimized.

It can be used by the project leader as to plan the project schedule, resource needs, and to track progress against the schedule. And the team members can use it to understand what they need to do, and what other activities they are dependent upon.

Purpose of Project:

With the exponentially growing dependency of the academic institutes on the internet, accessibility and manageability of the resources on both the student’s and the faculty's end is the need of the hour. Many a times user has to wander from one application to other for different kinds of information which is time consuming and it also increases the work load on the administration too which has to manage all these applications. Instead of carrying a separate basket for each egg, putting them all together in a single one seems to be a much better way out.

And that is what the purpose of the project is. It is all about getting the important pieces of the academic picture on one canvas in an eye soothing way. 'INTEGRATED CAMPUS' as the name suggests, integrates all the essential requirements of an academic institutes from both the student's and the faculty's perspective on one platform whether it is academics related, interaction related, student attendance related, results related, so on and so forth.

Assumptions and Constraints:

We assume that user should have internet connection to access the website, and he/she should be part of an institution to avail the facilities provided by the product. The user is assumed to have basic knowledge about websites, and should know how to surf internet. The GUI is aimed to be user friendly so that person who have less or no experience, will also be able to understand and use the features provided by the product.

Project Deliverables:

The deliverables will include:

- Project Proposal
- Feasibility Report
- Project Plan
- Software Requirement Specifications
- User Manual
- Software Design Specifications
- Software Development Life Cycle
- User Manual
- Quality Assurance
- Risk Management
- Design Documents
- Test Cases
- Test Reports
- Test Plan
- Configuration Management Plan
- Deployment Plan
- Gantt Chart
- Termination Analysis
- Traceability Matrix
- Activity Diagram

Project Roles and Responsibilities:

Names	Roles	Responsibilities
Vipul Garg	Team Leader Project Manager	Project Management, Documentation, Designing and Front End coding. Maintaining logs. Questionnaire for students.
Vidhan Agarwal	Team Member Front End Lead	Documentation, Designing and Front End coding. Survey from faculty. Prepare Test Cases.
Ayush Jain	Team Member Back End Lead	Documentation , Front End and Back End Coding. Database Design. Questionnaire for students.
Jayesh Hathila	Team Member	Documentation, Front End and Back End Coding. Database Design. Survey from faculty. Prepare Test Cases.
Nalin Patidar	Team Member	Documentation, Front End and Back End Coding, Questionnaire for faculty. Risk Analysis
Ishita Agrawal	Team Member	Documentation, Designing and Back End coding, Database Design. Questionnaire for faculty. User Manuals

Sushant Pritmani	Team Member	Documentation, Designing and Front End coding. Survey from students. Test Plan
Pinky J Meena	Team Member	Documentation, Designing and Front End coding. Questionnaire for faculty. Test Plan.
Anubhav Maity	Team Member	Documentation, Designing and Back End coding. Questionnaire for students. Risk Analysis User Manuals
Dishant Patel	Team Member	Documentation, Designing and Front End coding. Survey from students. User Manuals

Scheduling and Milestone:

Phases	Job	Estimated End Date	Phase Completion Procedure	Deliverables
Preliminary Study	Technical and Operational Feasibility	17-01-2013	Analysis Of Opportunities, Trends And Objectives	Feasibility Report, Project Proposal
Technical Proposal	Analysing project requirements, and capability to deliver the project	27-01-2013	Brainstorming Alternatives, Discussions	Project Plan
Requirement Analysis	Customer Requirement analysis, and specification	07-02-2013	Online Survey, Interviews, discussions	SRS, Test Plan, Test Cases
Project Design	Transform requirement specifications into a structure	20-02-2013	Analysing SRS and creating low level and high level system design	Design Documents
Implementation	Coding of different modules	17-03-2013	Coding And Unit Testing	Implemented System
Testing And Bug Fixing	Testing of each modules	23-03-2013	Integration, System	Final Working System
Installation	Finally Integration Of Project	01-04-2013	Deploy System	Complete System
Maintenance	Add New Functionality	05-04-2013	Improve Performance and adding new functionalities	Improved System

Cost Estimation:

In software engineering, time required for the development of the software is a key cost factor to be estimated. Each individual is spending at least 10 hours in a week for the development of the software (including the time spent in the scheduled meetings). Estimating that the effective number of weeks available for the team to deliver the project would be around 10 weeks (accounting for holidays and the semester exam weeks) from 1st week of January till the 1st week of April of 2013, the total time spent by an individual on the software development would be 100 hours. By this model, the total person hours spent by the team of 10 would be 10*100 = 1000 person hours in all.

We are employing open source tools and technologies for our software and these tools (Xampp, Photoshop (trial)) are available to us free of cost. We won't need any hardware except PCs and the laptops which the team members have would be suffice.

Quality Control:

The team believes that writing optimised code is the hallmarks of any good software as it reduces the number of lines of codes and makes the program more readable and efficient. Following coding standards would also enable the different programmers to produce codes that are in sync with each other. Such kinds of practices would also help us in debugging and error handling.

Every document that is prepared, is done so after a large number of discussions and deliberations so that every criticism that the team can come up with is taken into account. The document generated is also reviewed by the members who were not the authors of the document. The document is also discussed with the assigned TA and any improvement/addition suggested is duly taken into account.

Taking Quality Control under consideration we have divided our team into subgroups which will mainly focus on the following broad categories:

1) Front End,
2) Back End,
3) Designing Part and
4) Documentation.

To assign the group first we asked choice of every individual in which he/she is interested to work in, which will give strength to the sub-group and also retain interest of the individual in the group. Then if it was found that there was a huge preference for a particular category, some individuals were suggested to shift onto a different category so that each domain is given its due in terms of work hours and quality.

To keep a track of the quality, we have decided to incorporate some breakpoints at which we would assess the project. We are also planning to take few surveys on small scale in between the deadlines to review the software's features.

Risk Management:

The following risk factors can affect the progress of the project:

- Keeping in mind unexpected pressure in other courses, may result in delay of project, exams, and academic events, proper schedule analysis has been done and also by trying to complete the task before deadline, we can take care of it.
- Unavailability of team members due to personal reasons will be taken care of by closely monitoring of each members involvement and preparing the team members to be proficient in varied tasks.
- Loss of data or chances of data getting corrupted will be taken care by taking continuous backup of the work done.

Lack of training in a particular platform can also cause delays, so we plan to have training session, in which member's will discuss their doubts and try to help others if he/she is good at something.

Monitoring:

For project monitoring, the team leader conducts regular meetings of the team. Every role keeps a track of the work product that the role is responsible for. Any kind of progress made, idea discussed, skill learnt is kept a track of. The different modules have been assigned an appropriate leader who maintain a close rapport with the group members and the team leader for effective communication.

The logs and minutes of each meeting are maintained on google group created by the team member and the major ideas discussed and the progress made is also kept a track with the use of an online project management software called “trello”. This software organizes our project into boards, enabling each team member to notify the whole team about completion of his/her task. It also helps the group leader in assignment of tasks to all the other members.

The regularity of the team members in each meeting is recorded by the team leader in the form of attendance. It is an unwritten mandate for each of the team member to ensure that each of their peer be regular in attending the lecture and the team meetings.

It often happens that the team needs to split in sub-groups during a particular phase for better execution. Sub groups are let free to hold their meetings at timings of their own convenience but all the subgroups are required to meet at least 3 times a week and the outcomes are required to be posted in the Google Drive created so that other sub-groups can also review it simultaneously.

The leader shall call upon any sub group in the midst of the allocated time to keep the track of the work. Final meetings would be conducted to review the work products generated.