

# IT314 Software Engineering Team 7

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## Project Plan

Version 3.0

31 March, 2013

Winter 2012-13  
DA-IICT, Gandhinagar

**Document Revision History:**

<b>Version</b>	<b>Author(s)</b>	<b>Description</b>	<b>Reviewer(s)</b>	<b>Date</b>
1.0	Sonu, Surabhi	Project Plan v1.0	Sandeep	27 January, 2013
2.0	Nitish, Prashant	Evolutionary SDLC model adopted, Team members' responsibilities changed	Sandeep	15 February, 2013
3.0	Surabhi, Sonu	Detailed plan of each increment, cost estimate, and revised milestones.	Sandeep	31 March, 2013

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## **1. Introduction**

### **1.1 Overview**

The Project Plan is intended to serve as a framework for our project to – "Rebuild the Website of DA-IICT's Campus Magazine 'Entelechy'". The Purpose of this document is to tentatively define the different phases and iterations for the project life cycle. It will aid as a guideline to the team to see if they are in sync with estimated deadlines of various phases of software development.

### **1.2 Project Deliverables**

The deliverables will include:

- Project Proposal
- Feasibility Report
- Project Plan
- Software Life Cycle Development Model
- Software Requirement Specifications
- User Manual
- Requirements Traceability Matrix
- System Design Documents
- System Test Plan
- Test Cases
- Test Reports
- User Interface Design Document
- Quality Assurance Plan
- Tools and Libraries
- Risk Monitoring, Management & Mitigation Plan
- Software Configuration Management Plan
- Coding Conventions
- Documentation Standards
- Cost Estimation Plan
- Deployment Plan
- Termination Analysis
- Product – Website

### **1.3 Stakeholders**

- Press Club
- Student community, DA-IICT.
- Faculty, DA-IICT.
- Alumni, DA-IICT.

## **1.4 Assumptions, Constraints and Risks**

The same as the ones which hold for the current Entelechy website, like – know-how of English language, computer and internet, which are easily satisfied by the DA-IICT community – students, faculty and alumni.

## **2. Goals and Scope**

### **2.1 Project Goals**

The overall aim of the project is to enhance the existing website of Entelechy (DA-IICT's Press Club) by undertaking a number of issues which the managing editor of the magazine faces while editing/publishing articles. The website is currently hosted on widespread, open source publishing tool and content management system (CMS) – 'WordPress' (*wordpress.org*). We will be working on the same platform but adding a number of new features to the website to make it hassle free and user friendly, as requested by the client.

### **2.2 Project Scope**

The new site will, for now, have a similar scope to the currently functional one. As in, it can be accessed from the webmail ID by any DA-IICT student. The website is currently being utilised to host articles written by our students and faculty. The website can be accessed from any platform like a browser, mobile phone - android and iOS etc. The client has insisted on keeping the development on wordpress but the website could be made even more robust and dynamic in future by developing it on another platform. Target audience is the entire DA-IICT community at large – students, faculty and alumni.

### **2.3 Project Undertaking:**

The Project aims to equip the current website with several enhanced capabilities, few of which are as listed below:

- In the present structure, the categories and tags must be added independently for each edition. We intend to modify this so that each new edition will inherit the previous edition's categories by default and new categories may also be added.
- Archival system is inefficient – the articles are stored on the basis of their edition instead of subject or categories. The articles will be stored more efficiently in archives and linked.

- User profiles have very few options – the articles cannot be viewed on the basis of their author’s information. The new site will have each author’s profile along with links to all the articles written by him/her.
- Recommendation system – to allow the system to recommend an article to reader based on the kind of articles the reader has read before based on his choice in categories, author etc.
- Proper and more robust 'like' and 'comment' functionality on individual articles and profiles.
- Twitter integration based on hashtags of tweets (one-click share and recommendations).
- New improved designs and themes.
- Table of Contents which will display a dynamic page with section wise articles of a particular edition.
- Bulletins separate from Articles which will be small posts or news snippets. Like all other posts/articles, it will also have direct upload system.
- Notification System which will directly send an email to the author email id to notify him about comments on his posts.

Since we’ve concluded to follow ‘Evolutionary model’ as our project model throughout the development of our software, we anticipate providing the deliverables in the following approaches:

1. Core Structure: WordPress 3.5, upon which we intend to build our new Entelechy website.
2. Increment 1:
  - Structure Modification, i.e. each new edition will inherit the previous edition’s categories by default and new categories may also be added, so as to make the categories and tags independent for each edition.
  - Restricting Registration with DA-IICT webmail ID.
  - Bulletins separate from Articles which will include small posts or news snippets.
  - A more robust archival feature which will enable users to search article belonging to a particular edition or a particular category or a combination of both.
3. Increment 2:
  - UI Design, i.e. by enhancing the current design of website and make it more user-friendly and in terms of looks and feel.
  - In addition to changing the UI, we also plan to change the default template for ‘freeze frame’ and ‘point-counterpoint’ categories.
  - Table of Contents to display section wise articles of the current edition.
  - Like Feature on posts by logged in users.
  - Co Authors for posts and bulletins.
  - Manipulation of database dump of currently hosted entelechy site so as to make edition and category independent and making authors different from tags.

## 4. Increment 3:

- Recommendation System
- User Profile system
- Notification System
- Twitter Integration
- Integration of old database (Edition 1 - 20).

### 3. Organization

#### 3.1 Coordinating team

Team consists of 10 members, each having different skill sets. The team has been divided into sub-groups so that the work assigned to each sub-group can be finished efficiently on time and hence the whole project.

**Tentative Roles and Responsibilities of the team members are listed below:**

ID	NAMES	ROLES	RESPONSIBILITY
201001113	Sandeep Mertia	Team Leader	<ul style="list-style-type: none"> <li>• Project Management</li> <li>• Documentation and Review (Head)</li> <li>• Requirements Gathering &amp; Analysis and User Study</li> <li>• Web Designing</li> </ul>
201001065	Surabhi Prasad	Team Member	<ul style="list-style-type: none"> <li>• System Design (Head)</li> <li>• Software Development (Coding)</li> <li>• Documentation and Review</li> <li>• Database Management</li> <li>• Testing</li> </ul>
201001067	Prashant Pandey	Team Member	<ul style="list-style-type: none"> <li>• Web Designing</li> <li>• Documentation and Review</li> <li>• Requirement Gathering</li> <li>• Testing</li> </ul>
201001086	Manjeet Chavda	Team Member	<ul style="list-style-type: none"> <li>• Documentation and Review</li> <li>• Database Management</li> <li>• System Design</li> </ul>
201001087	Akash Pandey	Team Member	<ul style="list-style-type: none"> <li>• Documentation and Review</li> <li>• Database Management (Head)</li> <li>• System Design</li> </ul>

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201001104	Swena Gupta	Team Member	<ul style="list-style-type: none"> <li>• Software Development (Coding) (Head)</li> <li>• Web Designing</li> <li>• Testing</li> <li>• Documentation and Review</li> </ul>
201001108	Abhisekh Bohra	Team Member	<ul style="list-style-type: none"> <li>• Web Designing</li> <li>• Testing</li> <li>• Requirements Gathering &amp; User Study</li> <li>• Documentation and Review</li> </ul>
201001112	Sonu Buchasia	Team Member	<ul style="list-style-type: none"> <li>• Software Development (Coding)</li> <li>• System Design</li> <li>• Testing (Head)</li> <li>• Documentation and Review</li> <li>• Database Management</li> </ul>
201001115	Nitish Mittal	Team Member	<ul style="list-style-type: none"> <li>• Software Development (Coding)</li> <li>• Documentation and Review</li> <li>• Web Designing (Head)</li> <li>• Requirement Analysis</li> </ul>
201001121	Sumit Kumar	Team Member	<ul style="list-style-type: none"> <li>• Database Management</li> <li>• Documentation and Review</li> <li>• System Design</li> </ul>

#### 4. Schedule and Milestones

The Project needs to be completed by the first week of April 2013, i.e., in a period of three months. The assessment of different phases of the project, cost and schedule would be done considering the academic calendar.

Sr. no	Milestones	Deliverables	Proposed Deadline
1	Finalizing a project idea	Project Topic	10 January, 2013
2	Need of the project, feasibility analysis, Project proposal	Feasibility report and project proposal	16 January, 2013
3	Planning for the work to be done in course of the project	Project Plan	27 January, 2013
4	SRS	SRS Document	18 February, 2013
5	Test plan	System Test Plan	19 February, 2013
6	User Manual v1.0	User Manual	20 February, 2013



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7	Traceability Matrix	Traceability Matrix	22 February, 2013
8	Increment 1	System Design	28 February, 2013
		Unit Tested Module	7 March, 2013
		System Testing Report	10 March, 2013
9	Increment 2	System Design	5 March, 2013
		Unit Tested Module	25 March, 2013
		System Testing Report	30 March, 2013
10	Increment 3	System Design	31 March, 2013
		Unit Tested Module	04 April, 2013
		System Testing Report	05 April, 2013
11	Testing and final changes	Full System testing report	07 April, 2013
12	Final Presentation	Final Product along with all the relevant documents	10 April, 2013

## 5. Cost Estimation

The cost of the project is due to the cost of human resources and other resources such as hardware and software which would be used to develop the system. All the software which we'll use in this project are free and open source so, no costs will be incurred by our team. We have no financial deal or transactions to be made with our client, and there is no possibility having one in future.

The cost of Human Resources in Person per hour has been estimated by us as following:

- Team size is 10 members.
- Every week 1 person works for around 7 hours. (Initial period 8 weeks)
- After that, 1 person works for around 10 hours. (Approx. Last 3 weeks)
- Total estimated time required in the project =  $10 \times 7 \times 8 + 10 \times 10 \times 3 = 860$  person hours.
- This time is flexible and may change as the project proceeds.

## 6. Communication and Reporting

Type of Communication	Method / Tool	Frequency/ Schedule	Information	Participants / Responsibilities
<b>Internal Communication:</b>				
Project Meetings	Face to face	2 days/week approx	Project status, problems, future plans	Team Leader, Team members

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Sharing of project data	Google group, cloud based document services.	When available	All project documentation and reports	Team Leader, Team members
Milestone Meetings	Face to face	Weekly	Project status (progress)	Team Leader, Sub-group members
<b>External Communication and Reporting:</b>				
Meetings with TA	SEN LAB	Every Thursday	Guidance	Team Leader, Team Members
Client Meetings	Face to Face	Till SRS and then during implementation	-	Project Team

## 7. Project Monitoring and Quality Control

**Management within the group:** The project will be monitored by conducting appropriate meetings among the team members. Team members have been further divided into Sub - groups and will be allotted specific tasks involved during the process of software development. At the end of each module or phase, the progress will be evaluated and accordingly there will be proper planning to complete the project in systematic and cost effective manner.

**Requirement Management:** Requirement specification document will contain all the requirements as specified by our stakeholders. It will be monitored in every phase and will be updated according to the need of the project.

**Quality Control:** To maintain the quality of each deliverable, a review process will be followed for each deliverable. During the requirement phase, to ensure the quality of SRS, there will be regular questionnaires and interviews. During the coding phase, proper coding conventions and standards will be followed.

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## 8. References

Solanki, Aakash et. al., Team 16 - NGO Information Management Suite 1.0 - Project Plan, IT314 Software Engineering, Winter 2011-12, DA-IICT.

Shelat, Kaushik et. al., Team 18 - Bus Route Finder For Ahmedabad City - Project Plan, IT314 Software Engineering, Winter 2011-12, DA-IICT.

