

Project Timeline - Fall 2015

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Abstract— Events in the past play a major role in shaping our future. World Wide Web has all the information related to such events, but it is scattered all over the web and there is no automated way to combine this information and study such events for entities of interest. Our aim is to build a system which can collect such data from web and use it to build a time-line of major events pertaining to an entity. Here entity is a generic term we are using to represent an Organization, Country, Person etc.

I. PROJECT DESCRIPTION

Insert your overall project description here. Specify the project type according to the posted sakai announcement. What is it that you are proposing?. Why is it useful?. Is it feasible to complete your project within the semester?. Is it a novel idea? What are the main stumbling blocks? What is the timeline for your project progress?. How are you planning to reach the major milestones?.

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The project has four stages: Gathering, Design, Infrastructure Implementation, and User Interface.

A. Stage1 - The Requirement Gathering Stage.

Get a realistic project idea that includes potential real world scenarios, with a description of the different user types along with their interactions with the system as well as the system feedback to them, according to their information needs. This stage also requires the specification of the different constraints and restrictions that need to be enforced depending on the different types of user (system interactions). The deliverables for this stage include the following items:

- A general description (in plain English) of your project's deliverables (understandable by computer illiterate users).
- A specific description of at least three types of users.
- A description of detailed real world scenarios (at least 2 scenarios) representing those typical interactions between the different user types and the system (including inputs and outputs and data types).
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- A detailed time line for completion of the major implementation stages together with the division of labor including testing, documentation, evaluation, project report, and power point presentation.

Please insert your deliverables for Stage1 as follows:

- The general system description: Please insert the system description here.
- The three types of users (grouped by their data access/update rights): Please insert the users types in here, as follows:
- The user's interaction modes: Please insert the user's interaction modes here.
- The real world scenarios: Please insert the real world scenarios in here, as follows.
 - Scenario1 description: Please insert Scenario1 description here.
 - System Data Input for Scenario1: Please insert System Data Input for Scenario1 here.
 - Input Data Types for Scenario1: Please insert Input Data Types for Scenario1 here.
 - System Data Output for Scenario1: Please insert System Data Output for Scenario1 here.
 - Output Data Types for Scenario1: Please insert Output Data Types for Scenario1 in here.
 - Please repeat that pattern for each scenario (at least 2 scenarios per user).

Please repeat that pattern for each user type.

- Project Time line and Division of Labor. Please insert here the time line and the corresponding implementation tasks.

B. Stage2 - The Design Stage.

Transform the project requirements into a system flow diagram, specifying the different algorithms, data types and structures required for processing and their associated operations. The deliverables for this stage include the system flow diagram containing a graphical representation and textual descriptions of the corresponding data transformations, high level pseudo code of the overall system operation, and overall system time and space complexity.

Please insert your deliverables for Stage2 as follows:

- Short Textual Project Description. Please insert here the flow diagram textual description here together with its overall time and space complexity.

- Flow Diagram. Please insert your system Flow Diagram here.
- High Level Pseudo Code System Description. Please insert high level pseudo-code describing the major system modules as per your flow diagram.
- Algorithms and Data Structures. Please insert a brief description of each major Algorithm and its associated data structures here.
- Flow Diagram Major Constraints. Please insert here the integrity constraints:
 - Integrity Constraint. Please insert the first integrity constraint in here together with its description and justification.

Please repeat the pattern for each integrity constraint.

C. Stage3 - The Implementation Stage.

Specify the language and programming environment you used for your implementation. The deliverables for this stage include the following items:

- Sample small data snippet.
- Sample small output
- Working code
- Demo and sample findings
 - Data size: In terms of RAM size; Disk Resident?; Streaming ?;
 - List the most interesting findings in the data if it is a Data Exploration Project. For other project types consult with your project supervisor what the corresponding outcomes shall be. Concentrate on demonstrating the Usefulness and Novelty of your application.

D. Stage4 - User Interface.

Describe a User Interface (UI) to your application along with the related information that will be shown on each interface view (How users will query or navigate the data and view the query or navigation results). The emphasis should be placed on the process a user needs to follow in order to meet a particular information need in a user-friendly manner. The deliverables for this stage include the following items :

- The modes of user interaction with the data (text queries, mouse hovering, and/or mouse clicks ?).
- The error messages that will pop-up when users access and/or updates are denied
- The information messages or results that will pop-up in response to user interface events.
- The error messages in response to data range constraints violations.
- The interface mechanisms that activate different views in order to facilitate data accesses, according to users' needs.
- Each view created must be justified. Any triggers built upon those views should be explained and justified as well. At least one project view should be created with a justification for its use.

Please insert your deliverables for Stage4 as follows:

- The initial statement to activate your application with the corresponding initial UI screenshot
- Two different sample navigation user paths through the data exemplifying the different modes of interaction and the corresponding screenshots.
- The error messages popping-up when users access and/or updates are denied (along with explanations and examples):
 - The error message:
 - The error message explanation (upon which violation it takes place): Please insert the error message explanation in here.
 - The error message example according to user(s) scenario(s): Please insert the error message example in here.
- The information messages or results that pop-up in response to user interface events.
 - The information message: Please insert the error message in here.
 - The information message explanation and the corresponding event trigger
 - The error message example in response to data range constraints and the corresponding user's scenario Please insert the error message example in here.
- The interface mechanisms that activate different views.
 - The interface mechanism: Please insert the interface mechanism here.

II. PROJECT HIGHLIGHTS.

- Only working applications will be acceptable at project completion. A running demo should be presented to your project advisor at a date to be specified after the second midterm. A version of your application shall be installed in a machine to be specified later during the semester. Your final submission package will also include a final LaTeX report modeled after this document, as well as a Power Point Presentation.
- The presentation (7 to 8 minutes) should include at least the following items (The order of the slides is important):
 - 1) Title: Project Names (authors and affiliations)
 - 2) Project Goal
 - 3) Outline of the presentation
 - 4) Description
 - 5) Pictures are essential. Please include Interface snapshots exemplifying the different modes of users' interaction.
 - 6) Project Stumbling Blocks
 - 7) Data collection, Flow Diagram, Integrity Constraints
 - 8) Sample Findings
 - 9) Future Extensions

- 10) Acknowledgements
- 11) References and Resources used (libraries, languages, web resources)
- 12) Demo (3 minutes)

Please follow the sample presentation mock up that is posted on Sakai.

- By Dec 1 your group should have completed the final submission. This includes a presentation (7 to 8 minutes) to your project advisor as well as a convincing demo of your project functionalities (3 minutes): every group member should attend the demo (and presentation) indicating clearly and specifically his/her contribution to the project. This will allow us to evaluate all students in a consistent and fair manner.
- Thank you, and best of luck!