**Project Report**

# **Project Title:** WhatsUrSay.

# **Group Information:**

* 1. **Name:** DSEs
  2. **Members:**
     1. Sreedevi Koppula
     2. Rajashekhar
     3. Nikhitha Kaza
     4. Abhinav Bhandaram.

# **Project Description:**

* 1. **Description:**

“What’sUrSay?” is an online polling and survey system. This is a web application that is comprised of the following features:

1. A person signs up using registration form to become a user of the system.
2. A user can be granted any of the below three user roles based on the administrative position of the user and the requirement:
3. Admin (A)
4. Group leader (L)
5. Normal User (U)
6. Each user is provided with a dashboard.
7. The users can view their dashboard only upon their successful login

The appearance of dashboard and the features provided to a user vary from one user role to the other.

Below are the features provided to regular users (U) on their dashboard:

The dashboard contains the below details:

1. Filter to select ‘Polls’ or ‘Surveys’ or ‘Both’
2. Filter to select ‘Private’ or ‘Public’, this would filter the ‘Polls’ and ‘Surveys’ respectively.
3. Once the filters are selected by the user, one of the below actions take place:

* Upon the choice of ‘Polls’ and ‘Private’, the user will be listed all the Polls (already participated and non-participated), where the user is one among that poll group
* Upon the choice of ‘Polls’ and ‘Public’, the user will be listed all the Polls (already participated and non-participated), where the user is not one among that poll group
* Upon the choice of ‘Surveys’ and ‘Private’, the user will be listed all the Surveys (already participated and non-participated), where the user is one among that survey group
* Upon the choice of ‘Surveys’ and ‘Public’, the user will be listed all the Surveys (already participated and non-participated), where the user is not one among that survey group
* Upon the choice of ‘Both’ and ‘Private’, the user will be listed all the Polls and Surveys (already participated and non-participated), where the user is one among that poll or survey group
* Upon the choice of ‘Both’ and ‘Public’, the user will be listed all the Polls and Surveys (already participated and non-participated), where the user is not one among that poll or survey group

1. From the list of Polls or Surveys or Both displayed to the user, the user can do one of the below actions:

* Select a Poll or Survey and view its details such as date of creation, created by, description of the Poll or Survey, etc.
* Select a Poll or Survey that is still open for the user response and then participate in it
* Select a Poll or Survey that is already completed and view its results

1. After the participation of user in a Poll/Survey, a participation confirmation email will be sent to the user.
2. Once the evaluation of the Poll is completed, the corresponding group users receive the results in an email.
3. The user has the option to see the names of all groups and other details of the groups that he belongs to.
4. Option to view the ‘Request for Group Leadership’ form (If the user is planning to become a group leader, this form is to be completed and submitted to the admin)
5. Option to fill out the form and submit to the admin (If the admin approves this, then the role of user is changed from ‘U’ to ‘L’, and he gets all the privileges and options of group leader after his next successful login)
6. Settings for updating the user account details (User name, password, profile picture, ‘About’ details)
7. “Sign out” button

Below are the features provided to Group Leaders (L) on their dashboard:

1. Create a user group
2. Add a user to the group
3. Remove a user from the group
4. Move the group ownership to other person
5. Delete the group
6. Create a poll/survey
7. Edit or update poll/survey details (Details: Title of the poll/survey, description, scheduled dates, add another group to the poll/survey, etc.)
8. Delete poll/survey
9. Option to see the list of groups that are created by him/her.
10. Option to see the list of polls/surveys that are created by him/her.
11. Option to click on ‘Calculate Results’ of a poll and publish the results to the corresponding poll groups. (upon ‘publish’, an email will be sent to the users with the results details)
12. Filter to select ‘Polls’ or ‘Surveys’ or ‘Both’
13. Filter to select ‘Private’ or ‘Public’
14. Once the filters are selected by the user, one of the below actions take place:

* Upon the choice of ‘Polls’ and ‘Private’, the user will be listed all the Polls (already participated and non-participated), where the user is one among that poll group
* Upon the choice of ‘Polls’ and ‘Public’, the user will be listed all the Polls (already participated and non-participated), where the user is not one among that poll group
* Upon the choice of ‘Surveys’ and ‘Private’, the user will be listed all the Surveys (already participated and non-participated), where the user is one among that survey group
* Upon the choice of ‘Surveys’ and ‘Public’, the user will be listed all the Surveys (already participated and non-participated), where the user is not one among that survey group
* Upon the choice of ‘Both’ and ‘Private’, the user will be listed all the Polls and Surveys (already participated and non-participated), where the user is one among that poll or survey group
* Upon the choice of ‘Both’ and ‘Public’, the user will be listed all the Polls and Surveys (already participated and non-participated), where the user is not one among that poll or survey group

1. From the list of Polls or Surveys or Both displayed to the user, the user can do one of the below actions:

* Select a Poll or Survey and view its details such as date of creation, created by, description of the Poll or Survey, etc.
* Select a Poll or Survey that is still open for the user response and then participate in it.
* After the participation, the Poll or Survey link is disabled in order to avoid a person to participate twice or more number of times in the same poll or survey.
* Select a Poll or Survey that is already completed and view its results

1. After the participation of user in a Poll/Survey, a participation confirmation email will be sent to the user.
2. Once the evaluation of the Poll is completed, the corresponding group users receive the results in an email
3. The user has the option to see the names of all groups and other details of the groups he belongs to.
4. Settings for updating the user account details (User name, password, profile picture, ‘About’ details)
5. “Sign out” button

Below are the features provided to Admin (A) on his/her dashboard:

1. View the requests received for ‘Group Leadership’ from normal users (This request is sent to admin when the normal user fills and submits the ‘Request for Group Leadership’ form.
2. Review the requests and decide upon assigning or declining the group leadership to a person
3. Change user role of a person from normal user (U) to group leader (L) based upon successful verification of his background and position.
4. Create a group and assign a group leader to it
5. Remove the group (Admin is not given the privilege to add users to the group. Only a group leader can do add the users)
6. Option to see the list of groups that are created by him/her.
7. Move the admin ownership to other person
8. Filter to select ‘Polls’ or ‘Surveys’ or ‘Both’
9. Filter to select ‘Private’ or ‘Public’
10. Once the filters are selected by the user, one of the below actions takes place:

* Upon the choice of ‘Polls’ and ‘Private’, the user will be listed all the Polls (already participated and non-participated), where the user is one among that poll group
* Upon the choice of ‘Polls’ and ‘Public’, the user will be listed all the Polls (already participated and non-participated), where the user is not one among that poll group
* Upon the choice of ‘Surveys’ and ‘Private’, the user will be listed all the Surveys (already participated and non-participated), where the user is one among that survey group
* Upon the choice of ‘Surveys’ and ‘Public’, the user will be listed all the Surveys (already participated and non-participated), where the user is not one among that survey group
* Upon the choice of ‘Both’ and ‘Private’, the user will be listed all the Polls and Surveys (already participated and non-participated), where the user is one among that poll or survey group
* Upon the choice of ‘Both’ and ‘Public’, the user will be listed all the Polls and Surveys (already participated and non-participated), where the user is not one among that poll or survey group

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* Select a Poll or Survey and view its details such as date of creation, created by, description of the Poll or Survey, etc.
* Select a Poll or Survey that is still open for the user response and then participate in it
* Select a Poll or Survey that is already completed and view its results

1. After the participation of user in a Poll/Survey, a participation confirmation email will be sent to the user.
2. Once the evaluation of the Poll is completed, the corresponding group users receive the results in an email
3. The user has the option to see the names of all groups and other details of the groups that he belongs to.
4. Settings for updating the user account details (User name, password, profile picture, ‘About’ details)
5. “Sign out” button.
   1. **Development Environment:**

* **OS:** Windows
* **Programming Language:** C#, TypeScript
* **Database:** MySql
* **UI and JavaScript Frameworks:** Bootstrap, Angular JS, HTML, CSS, JQuery
* **Server Side Technologies:** ASP.NET MVC Web API, ASP.NET Core

# **Meeting Minutes:**

1. **Meeting on:** 08/30/2016

**Location:** In class, B157

**Time:** 10:50 AM - 11:20 AM

**Team Members/ Attendees**:

Abhinav Bhandaram (Team LEAD )

Rajashekar Goud Korakoppula

Sreedevi Koppula

Kaza Nikhitha

**Topics discussed:**

1. Group Formation

2. Introduction to each other

3. Decision on the group leadership

4. Sharing thoughts and experiences on project development

5. Discussion on the type of application to be developed (Web Application or Android application or Windows application)

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| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Abhinav | Shared thoughts and experiences on previous projects development  Discussed on group leadership  Proposed Web application development | 25 |  |
| Rajashekar | Shared thoughts and experiences on previous projects development  Discussed on group leadership  Proposed Web application development | 25 |  |
| Nikhitha | Shared thoughts and experiences on previous projects development  Discussed on group leadership  Proposed Android application development | 25 |  |
| Sreedevi | Shared thoughts and experiences on previous projects development  Discussed on group leadership  Proposed Web application development | 25 |  |

1. **Meeting on:** 08/31/2016

**Location:** Library, Discovery Park

**Time:** 4 pm-6 pm

**Team Members/ Attendees**:

Abhinav Bhandaram (Team LEAD)

Rajashekar Goud Korakoppula

Sreedevi Koppula

Kaza Nikhitha

**Topics discussed:**

1. Each person proposed a project idea

* Sreedevi: E-commerce application
* Rajashekhar: Library Management System
* Nikhitha: ERP for Universities
* Abhinav: Online Examination Portal, Online Polling/Voting application

1. Evaluation of the project ideas based on feasibility, complexity, time of availability, manual effort needed, etc. for project development.

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| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Abhinav | Proposed Online Examination Portal, Online Polling/Voting application | 25 |  |
| Rajashekar | Proposed Library Management System | 25 |  |
| Nikhitha | Proposed ERP for Universities | 25 |  |
| Sreedevi | Proposed E-commerce application | 25 |  |

1. **Meeting on:** 09/01/2016

**Team Name:** DSEs

**Team Members/ Attendees**:

Abhinav Bhandaram (Team LEAD)

Rajashekar Goud Korakoppula

Sreedevi Koppula

Kaza Nikhitha

**Location:**  Class, B157

**Time:** 10:50 AM – 11:20 AM

**Topics discussed:**

1. Finalized 2 topics out of 5, proposed by the team

2. discussed the purpose and overview of ‘Online Voting Application’ that was finalized as our group project

3. Discussed briefly the requirements and project schedule

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| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Abhinav | Explained the overview of ‘Online Voting Application’  Discussed the requirements briefly | 25 |  |
| Rajashekar | Discussed the requirements briefly | 25 |  |
| Nikhitha | Discussed the requirements briefly | 25 |  |
| Sreedevi | Discussed the requirements briefly | 25 |  |

1. **Meeting on:** 09/06/2016

**Location:** In class, B157

**Time:** 10:50 AM - 11:20 AM

**Team Members/ Attendees**:

Abhinav Bhandaram (Team LEAD )

Rajashekar Goud Korakoppula

Sreedevi Koppula

Kaza Nikhitha

**Topics discussed:**

1. Discussed the requirements
2. Discussed the technologies needed for project development
3. Proposed MVC architecture for the project development
4. Discussed the decomposition of project into modules
5. Identified the target audience
6. Defined the scope of the project

|  |  |  |  |
| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Abhinav | Proposed MVC architecture  Discussed technologies to be used for project development  Discussed the requirements | 25 |  |
| Rajashekar | Discussed the requirements of the project  Discussed the modules of the project | 25 |  |
| Nikhitha | Discussed the scope and target audience of the project  Discussed the requirements of the project | 25 |  |
| Sreedevi | Discussed the modules of the project  Discussed the details of target audience of the project | 25 |  |

1. **Meeting on:** 09/08/2016

**Location:**  Willis Library

**Time:** 18:30-21:00

**Team Members/ Attendees**:

Abhinav Bhandaram (Team LEAD)

Rajashekar Goud Korakoppula

Sreedevi Koppula

Kaza Nikhitha

**Topics discussed:**

1. Risks involved in the project and their contingency plans

2. High level project plan, project timeline

3. GANTT and PERT charts parameters

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| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Abhinav | Risks involved in the project, high level project plan, project timeline, GANTT and PERT charts | 25 |  |
| Rajashekar | Risks involved in the project, high level project plan, project timeline, GANTT and PERT charts | 25 |  |
| Nikhitha | Risks involved in the project, high level project plan, project timeline, GANTT and PERT charts | 25 |  |
| Sreedevi | Risks involved in the project, high level project plan, project timeline, GANTT and PERT charts | 25 |  |

1. **Meeting on:** 09/08/2016

**Location:**  Class, B157

**Time:** 10:50 AM – 11:20 AM

**Team Members/ Attendees**:

Abhinav Bhandaram (Team LEAD)

Rajashekar Goud Korakoppula

Sreedevi Koppula

Kaza Nikhitha

**Topics discussed:**

1. Project’s directory structure and low level details of it

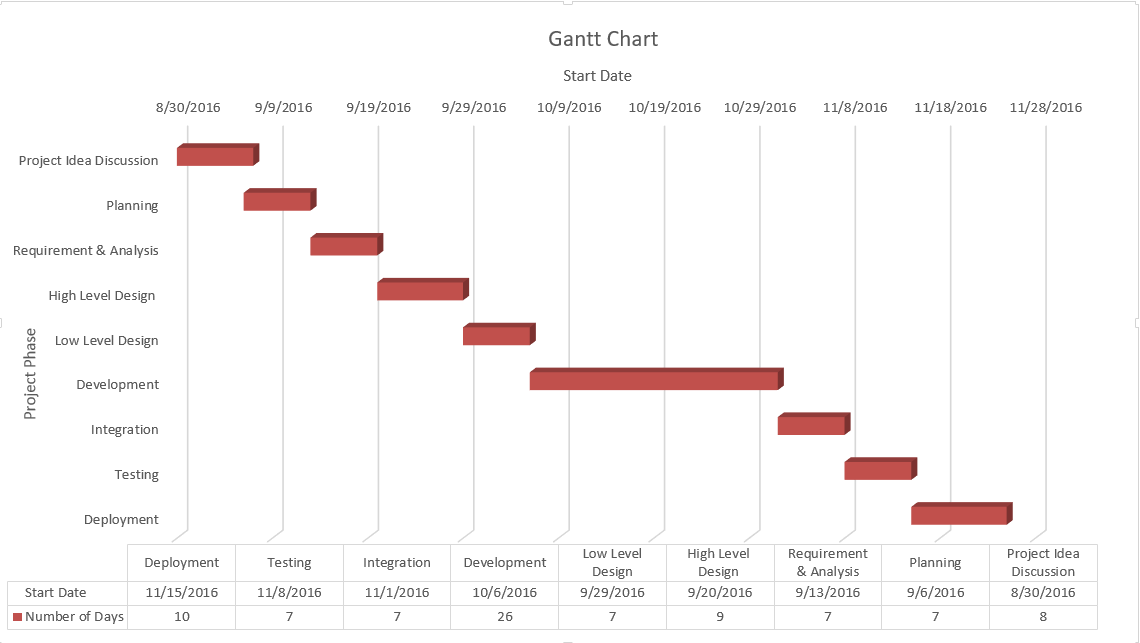
2. Web pages UI layout

3. Low level requirements of the project

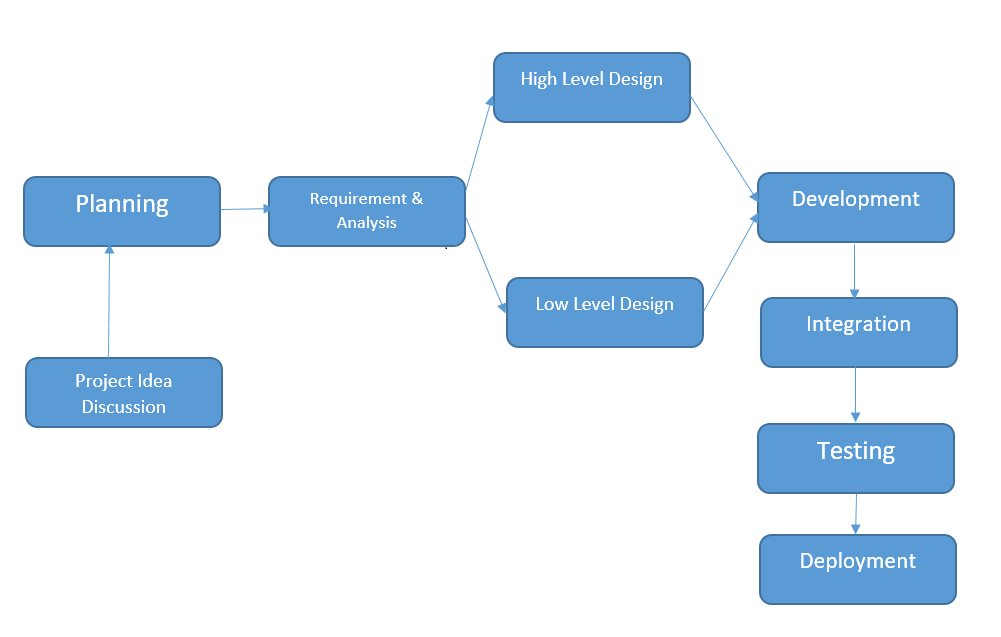
|  |  |  |  |
| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Abhinav | Discussed project’s directory structure, web pages UI layout and low level requirements | 25 |  |
| Rajashekar | Discussed project’s directory structure, web pages UI layout and low level requirements | 25 |  |
| Nikhitha | Discussed project’s directory structure, web pages UI layout and low level requirements | 25 |  |
| Sreedevi | Discussed project’s directory structure, web pages UI layout and low level requirements | 25 |  |

# **Gantt and PERT Charts:**

* 1. **Gantt Chart**

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* 1. **PERT Chart**



# **Risk Management Plan:**

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| --- | --- | --- | --- | --- |
| S.NO | Risks | Description | Monitoring | Contingency Plans |
| 1 | Misunderstanding of requirements. | Each developer may understand requirement in different way. | Code developed by one developer is tested by another to verify the correctness of functionalities. | At each phase code is tested, if a developer misunderstood requirements and coded the same then recoding is done as per correct requirements while other developers share extra work. |
| 2 | Missing deadlines. | There are many reasons for missing deadlines like less productive, environmental factors, medical leave and etc. | Percentage of work done is calculated to understand if it is with in timelines as per schedule | Reason is identified. If there is a medical emergency, then amount of work is shared among other developers. |
| If a developer is less productive then training is given to cope up. |
| 3 | Lack of Technical Knowledge. | All team members may not have knowledge on all technologies used in the project | In every team meeting, technologies to be implemented in current phase are discussed to understand if developers have enough knowledge to start work. | Training is given for required technologies. |
| 4 | Conflicts among developers. | Conflicts among developers may occur on approach. | Before starting to work on an activity or a module, opinion on approach to implement is taken from each developer. | Advantages and disadvantages of each approach is discussed and appropriate approach is selected. |
| 5 | Low quality. | Measured in number of defects. More number of defects infer low quality | Will keep track of number of defects found at end of each activity and analyze quality of code. | Code quality is checked at end of each week. Defects are classified and root causes for defects are analyzed and appropriate action is taken based on metrics. |

# **Report**

# **Member Contribution Table**

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| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note |
| Sreedevi |  |  |  |
| Nikhitha |  |  |  |
| Rajashekar |  |  |  |
| Abhinav |  |  |  |