

Lab Session V – Project Understanding, Elicitation, Features

Group 16

❖ Question 3

Stakeholders And Actors

- Stakeholders
 - Surveyor
 - User
 - Developer
 - Actors
 - Surveyor.
 - User.
 - Backend server.
 - Google authentication server.
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Features

→ User

- Sign Up- New users can create new accounts.
- Google Login- The user can use his/her google account to log into the website.
- Normal Login- Can use normal username and password to log into the main page.
- Change Profile Details- Users can change their profile details such as Name, DOB, Password etc.
- Fill survey- Can fill surveys made by surveyors.

- View open survey- Users can see all existing open surveys.
- Search open survey- Users can search any open surveys.
- Use shareable link- Users can use links shared by the surveyor to directly fill the survey.
- Can get invited- User can get invited to fill a survey created by surveyors.

→ Surveyor

- Sign Up- New surveyors can create new accounts.
- Google Login- The user can use his/her google account to log into the website.
- Normal Login- Can use normal username and password to log into the main page.
- Change Profile Details- Users can change their profile details such as Name, DOB, Password etc.
- Create Survey- Surveyor can create a new survey.
- Can add questions- Surveyors can add different types of questions to the new survey, questions can be multiple choice, single choice, text etc. questions can also have image, audio or video.
- Edit existing Survey- Surveyor can edit existing survey, he/she can add new question, remove old question and can also edit existing question.
- Close Survey- Surveyor can close a survey, after which a user cannot fill the survey.
- View response sheet and analytics- Surveyors can see response sheets filled by users and can also see analytics based on that.
- Can create links- Surveyors can create a sharable link, which users can use to fill surveys.
- Can invite users- Surveyors can invite users to fill their survey.

- Can make survey private- Surveyor can make survey private, and this survey can only be filled by users who've got an invite from surveyor.
 - Can make surveys public-Surveyor can make surveys public, and it will be visible to all users.
 - Contributors- Surveyors can add contributors to the form.
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Non-Functional Requirement

- Security
 - User's personal information is not accessible to anyone other than the user itself.
 - The survey data should only be visible to the surveyors who have created the survey.
 - The user will be prompted to fill in Captcha while submitting their response. This will make sure that the response is from a Human.
- Reusability
 - Different templates can be provided to the users. So that they can directly use these templates.
- Reliability
 - Responses from the user should be reliably stored on the cloud.
 - In case of any failure, the data should be safe in the cloud.
- Performance
 - Performance should generally be very smooth, and the system should work well even under intense load.
- Scalability
 - The web application should work smoothly, even when a large number of users are using the website simultaneously.

- Maintenance
 - Changes in the software should be made according to feedback received, users can also submit details of bugs they found during their use of the software.
 - User interface
 - The website should be easy to use and intuitive.
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User Interface

The Online Survey System would be a web-based application, and would be designed in such a way that the website would be intuitive and easy to use. It would be both graphical user interface and touch screen graphical user interface, hence the web page can be accessed through mobile or PC.

→ Surveyor

- Sign Up: Through this page the surveyor can register himself/herself to the webpage, the surveyor will be prompted to enter relevant details.
- Log In: Through this the surveyor can log into the webpage and access functionalities, the surveyor will be prompted to enter username and password. Log in through google account option would also be visible.
- Profile: Through this the surveyor can change the profile details such as name, password etc.
- Notification: This page will show user notification he/she has received.
- Edit Form/Create Form: Through this the surveyor can create the forms and latter the surveyor can also edit the form such as add or remove questions and can also edit the options. Through this

the surveyor can also restrict users from filling the form and can also add collaborators to the form.

- View Analytics: On this page the surveyor can see responses given by each user, and can also see graphs based on the responses.

→ User

- Sign Up: Through this page the surveyor can register himself/herself to the webpage, the surveyor will be prompted to enter relevant details.
 - Log In: Through this the surveyor can log into the webpage and access functionalities, the surveyor will be prompted to enter username and password. Log in through google account option would also be visible.
 - Main Page: In this page the user can see existing open surveys and click on it to go to fill form page. The user can also search for surveys.
 - Notification: This page will show user notification he/she has received.
 - Profile: Through this the surveyor can change the profile details such as name, password etc.
 - History: This page shows an exhaustive list of all the survey forms submitted from the logged in user's account.
 - Fill Form: This page will show a form created by the surveyor, and the user can fill the form. If the questions are option based, the user can click on the relevant option to mark it and if it is text based the user can enter the text.
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Open Issues

- As there is an option for guest login which allows users to fill out survey forms, there can be multiple entries made from the same system and results can be manipulated when guest responses are accepted by the surveyor.
 - If questions or question details are changed when a form is edited by the surveyor, desired analytics may not be reflected as users filling the survey before and after the revision made in the edit will be offered a different survey.
 - For example, if a survey form contains a multiple choice question with 4 questions and has received some responses before it is edited to modify two options. Now the users filling the revised survey form will be presented with a different set of options than previous users and the analytics will contain 6 choices as responses for that question.
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Write 2-3 paragraphs describing the requirements/needs/objectives of your project.

- The online survey system is a user friendly web application that allows surveyors to create and share survey forms with other users to fill. The survey forms are highly customizable with support for different types of questions, customizing existing templates, adding media to forms, only allowing registered users to fill the survey forms, and the option to view response

analytics. To make registration hassle-free, users can use google authentication for logging in as well.

- The objective of the system is to provide an economical and reliable tool to conduct surveys, each survey form has a unique url link that can be used to fill the form from anywhere with internet access. As this application has a large scale usage potential, reliability and ease of use are of utmost importance; so the users are given an option to provide feedback to the development team as well.
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Use Case

1. Login

- Actors- Surveyor, user and backend server.
- Description- Login log the user and surveyor into the web page.
- Precondition- Users and surveyors should have an account before using login or they can choose guest login.
- Postcondition-Login directs users and surveyors to the main page from where they can access other functionalities.

2. Google Login

- Actors - Surveyor, User and Backend server
- Description- As a option of login user/surveyor can login through Google
- Precondition- User/Surveyor must have a google account to login
- Postcondition- Login directs users and surveyors to the main page from where they can access other functionalities.

3. Profile

- Actors - Surveyor, User and Backend server
- Description - Surveyor and user can see their Profile
- Precondition - Surveyor/User should have account before and also logged in to our website
- Postcondition - Surveyor/User could see their Profile

4. Update Profile

- Actors-Surveyor, User and Backend server
- Description- The user can update the existing profile.
- Precondition-The user should have an account and must have logged in.
- Postcondition-The updated profile will be visible to the user and stored in the backend server.

5. Notification and Alert

- Actors- Surveyor, User and Backend server
- Description- If anyone invites to fill up the survey form then it will notify the surveyor or If one surveyor shares the contributor link to join and contribute in the survey form and if s/he accepts the requests then it will notify the surveyor.
- Precondition- User/Surveyor must have an account
- Postcondition- User/Surveyor can see the Notification if any event happens described above

6. Feedback

- Actors-User and backend server
- Description- The users gives the feedback about the use of survey forms to the the backend server
- Precondition-Users must have filled or used the survey form before
- Postcondition-The feedback will be stored in backend database

7. Fill form

- Actors-User and backend server.

- Description- Fill form let user fill the survey.
- Precondition-The user must be logged into the webpage and either the form should be public or if it is private then the user must have an invitation from the surveyor.
- Postcondition-The response will be stored in the backend database.

8. Edit form

- Actors-Surveyor and backend server
- Description- The user can edit the form after the form is created.
- Precondition-The user must have logged in and have created the form.
- Postcondition-The edited form will be stored in the backend database.

9. Create Form

- Actors- Surveyor and backend database.
- Description- The surveyor can create a new form, in which he/she can add questions of different types.
- Precondition-The surveyor must be logged into the webpage.
- Postcondition- After creating the form the form will be stored in the backend server, if it is public survey then it would be visible to all the users otherwise it will be visible to users who've got an invitation from surveyor.

10. Close Survey

- Actors- Surveyor and backend database.
- Description- A surveyor can close open surveys.
- Precondition- The survey should be open.
- Postcondition- The survey will be closed, and users won't be able to fill form once the survey is closed.

11. Add Collaborator

- Actors- Surveyor and Backend server.

- Description- The surveyor can add collaborators to his/her form, the collaborators can make change to the survey.
- Precondition- A form must be created before adding a collaborator.
- Postcondition-Notification will be sent to the collaborator, and he/she will be able to make changes to the form.

12. Restrict User

- Actors- Surveyor and backend database.
- Description- The surveyor can restrict several users from filling the form.
- Precondition-The user has logged in but has not filled the form.
- Postcondition- The restricted user information will be saved in the backend server.

13. Add/Edit/Remove Question

- Actors- Surveyor, Backend System
- Description- Surveyor can Add/edit/remove question that s/he had created
- Precondition- The surveyor must have an account
- Postcondition- Surveyor can choose Templates and other features after creating survey form

14. Data Analytics:

- Actors - Surveyor, Backend System
- Description - Surveyor can look at the responses of its survey in the text form if possible or in a chart form if possible.
- Precondition - Surveyor should be the creator of the form or contributor of the form and should be logged in before.
- Postcondition - Surveyor could see the responses of the survey.

15. Retrieving Response Sheet:

- Actors- Surveyor, Backend System
- Description- Surveyor can see the Graphical analysis as well as s/he can see the excel sheet as a part of analysis
- Precondition- Surveyor must have created survey form for which s/he wants to analyze
- Postcondition- After seeing analysis surveyor can close survey

Use Case Diagram:

