IT314 GROUP 16

Online Survey System

Under the mentor-ship of Prof. Saurabh Tiwari

Group Members

201801002 - Madduri Sriram
201801040 - Chaitanya Patel
201801041 - Akarsh Jain
201801058 - Shubam Sharma
201801066 - Koushik Agrawal
201801075 - Akash Singh
201801101 - Agrim Kapoor
201801155 - Soham Mehta
201801411 - Harsh Patel
201801412 - Sanjay Nair

Contributions

- Project Manager: Sanjay Nair
  - Group Leader
  - Elicitation Techniques - Brainstorming, Questionnaire and survey
  - Activity Diagram
  - Concept Map
  - Use case diagram
  - After design made a proper plan on where to start and how to proceed.
  - Implemented MyForm, AllForm page in the frontend, log in as guest feature
  - Implemented Form and Authentication services in the backend.
  - Helped fellow team members to solve bugs in their implementation.
  - PPT and Documentation of the project.

Contributions

- Soham Mehta
  - Elicitation Techniques - Brainstorming, Questionnaire
  - Activity Diagram
  - Sequence Diagram
  - Use case Diagram
  - Implemented Form, Edit form functionality, and functionality of uploading image
  - Equivalence Classes and Acceptance Testing
  - PPT
- Koushik Agrawal:
  - Elicitation Techniques
  - Activity Diagram
  - Use Case Diagram
  - State Diagram
  - Implemented Landing page in the frontend

Contributions

- Harsh Patel : 201801411
  - Elicitation Techniques - Brainstorming, Questionnaire
  - Use Case Diagram, concept map
  - Activity Diagram
  - Implemented Database schema, Dashboard showing forms
  - Implemented SignIn and SignUp functionality also with Guest Login
  - PPT
- Akarsh Jain: 201801041
  - Use case diagram
  - Activity Diagrams
  - Class Diagram
  - Implemented services javascript files
  - Black-box and acceptance level testing
  - Made the demonstration Video

Contributions

- Agrim kapoor : 201801101
  - Use Case Diagram, concept map
  - Activity Diagrams
  - Implemented Response page, Drag and Drop and Home in forms
  - GUI Testing
  - PPT

- Chaitanya Patel : 201801040
  - Activity Diagram
  - Sequence Diagram
  - Implemented Question Tab, oneform and Error boundary functionality in forms
  - Black-box and acceptance testing
  - PPT

Contributions

- Madduri Sriram : 201801002
  - Elicitation Techniques
  - State Diagram
  - Implement routes in frontend, index.js, main.js, App.js - which redirects users to different landing pages accordingly.
  - PPT
- Shubham Sharma: 201801058
  - Elicitation Techniques
  - Activity Diagram
  - Use Case Diagram
  - Implemented Routes and Server in the Backend Part of the project.

Contributions

- Akash Kumar Singh:
  - Elicitation Techniques
  - Activity Diagram
  - Use Case Diagram
  - Implemented UserView of the form and other response related frontend
  - PPT

Objectives

- The primary objective of this project is to create a web-application that allows surveyors to conduct surveys and collect responses.
- The functionality can be further extended with a portal that allows users to sign up and sign in with unique identities.
- Surveyors should have the ability to create forms, as well as edit them later. They should also be able to view all the submitted responses to their forms in real time. Each form should be linked to a unique URL so it can be shared.
- To allow for anonymous responses, users should be able to use a guest login option and be able to view all open surveys accepting responses.

Milestones

Milestone 1:

- Completion of the design part and after analyzing the overall system, implemented some basic structure of the online survey system by the end of March.

Milestone 2:

- Implementation of primary functionalities like form creation, editing forms, form sharing and inter-connecting the links between these features before the end of April.

Milestone 3:

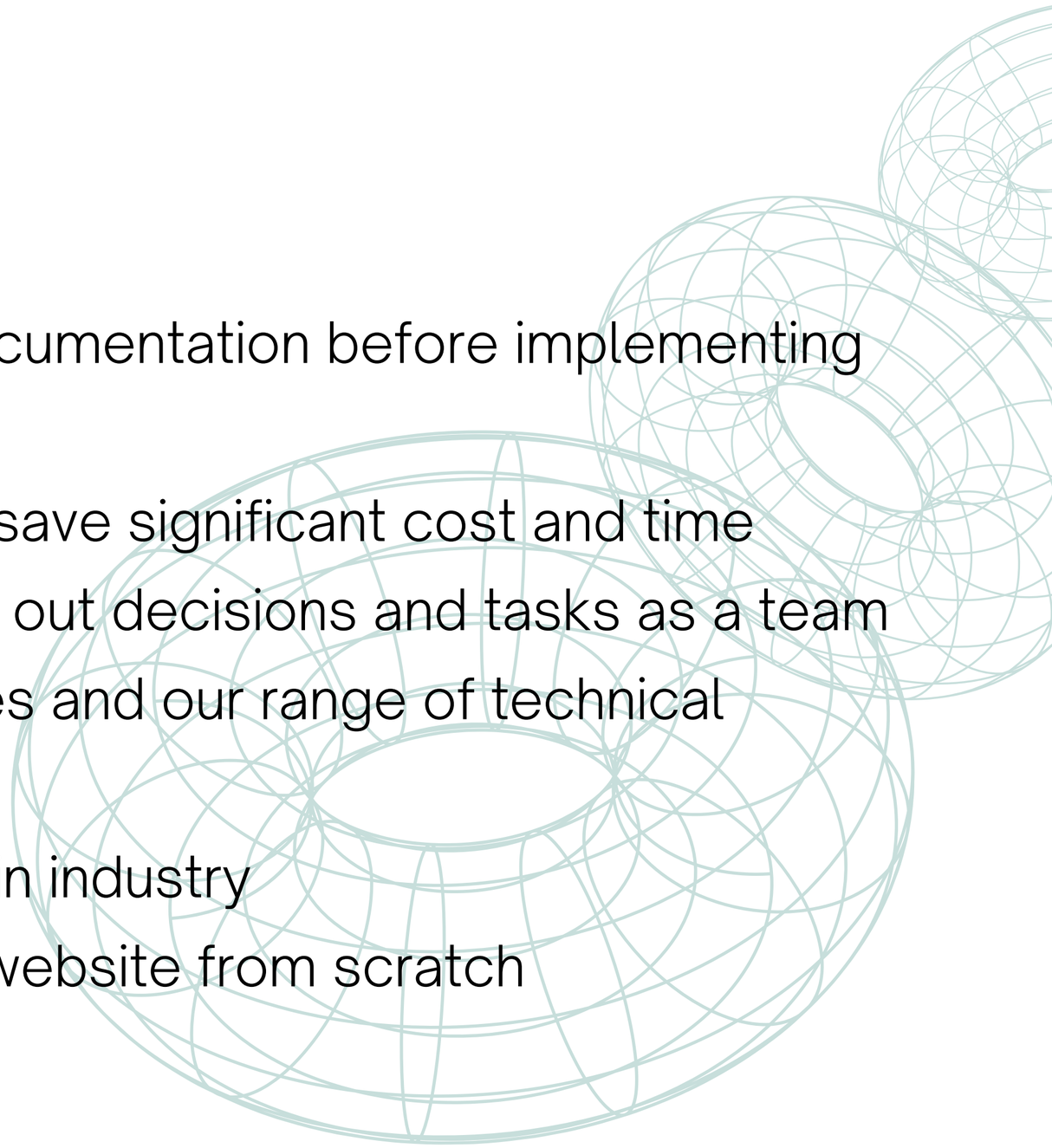
- Implemented the login portal and all identified bugs were fixed and merged together to create the final application. We then performed testing using the blackbox testing, acceptance level testing and GUI testing techniques.

Mistakes

- The first few functionalities were implemented without any prior design which lead to significant changes in these functionalities in the later stage, which essentially slowed us down.
- There was communication gap between backend and frontend developers which resulted in difficulty when we started integrating both.
- We started coding a bit late, if we could've started early we would've implemented almost all functionalities.

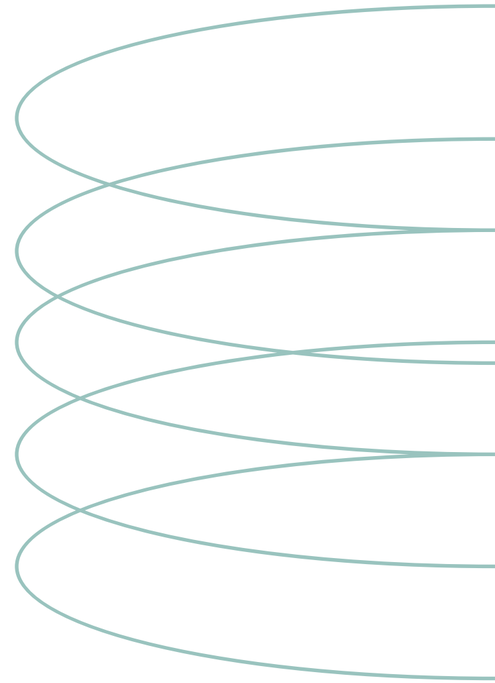
Takeaways

- Importance of proper planning and documentation before implementing such a complex project
- Importance of testing, and how it can save significant cost and time
- Ability to effectively discuss and carry out decisions and tasks as a team
- Introduced to a lot of new technologies and our range of technical knowledge expanded
- Learnt how development takes place in industry
- Learnt how to make a fully functional website from scratch



Achievements

- We developed a functional website for taking online surveys using JavaScript, React and MongoDB.
- We learned how to version control the code using Git and Github.
- We Successfully implemented the following features:
  - Sign in / Sign up
  - Create and edit form
  - Attach image to form questions
  - View responses of submitted forms
  - Get sharable link of of your forms



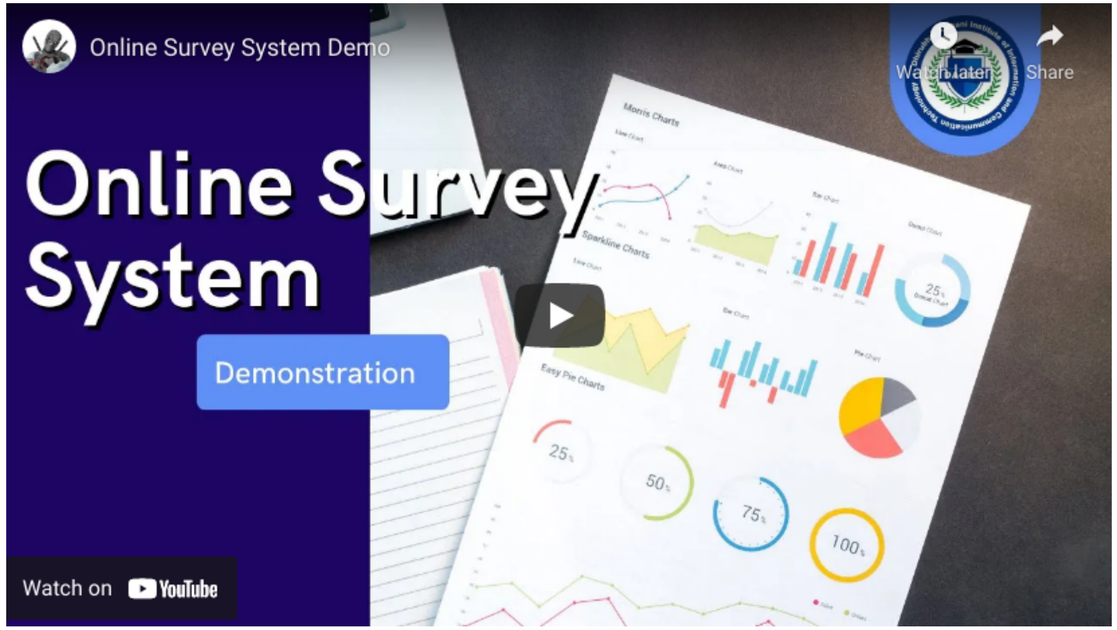
Rating of software artifacts:

- Code : 4 (out of 5)
- User Interface : 4 (out of 5)
- Documentation : 5 (out of 5)
- Project management : 4.5 (out of 5)

Overall Rating of software

- 8 (out of 10)

Demonstration of project



https://youtu.be/3iQcYW-SNBo


Thank You!