Sprint 3

Backlog:

1) Develop add friend module for Bookstagram. Users would also be able to see their friends and remove them.

2) Develop News feed module for showing posts from user to which his/her friends can like, comment and add to his Wishlist.

3) Develop Book Reading module which allows user to read any book he/she has purchased.

4) Make changes according to customer's suggestion given from Sprint 2

Sprint Provisional Planning: (10 days * 5 * 3 = 150 hr)

Requirement Gathering:

- Prepare questionnaire to ask to customer (1h): Mar 2 – Mar 2: All team
- Setup meeting with the customer for Milestone (1h): Mar 3 – Mar 3: Neel Patel
- Design UI Prototypes of all features to be develop for proposing design to customer (6h): Mar 8 – Mar 10 – Neel Patel

Specifications:

- Analyse the answers of customer from additional requirement meeting 1 (2h): Mar 3 – Mar 4: All team members.
- Design the user & friends post related fields & tables for database that includes comments, likes, friend links etc. (4h): Mar 3- Mar 4: Abishek Rajagopal
- Discuss how to integrate post feature and plan front end and backend development (3h): Mar 3 – Mar 5: All team members.
- Design Database structure for link between user and his friends(2h): Mar 5 – Mar 18: Abishek & Dishant
- Plan & Design the UI/UX design of Friends List, Post (Likes, Comments) (3h): Mar 7 – Mar 10: Sayee Shruthi

Implementation:

- Setup migrations in Framework for Database (2h): Mar 8 - 9: Abishek Rajagopal
- Develop APIs for getting data from backend (6h): Mar 8 – 15: Abishek Rajagopal
- Implement HTML Static Webpage for News Feed (3h): Mar 10 – 12: Sayee Shruthi
- Implement HTML Static Webpage for Add Friends (2h): Mar 12 - 12: Neel Patel
- Implement HTML Static Webpage for Book Reading Button (2h): Mar 12 - 12: Sayee Shruthi
- Add dynamic content on webpage using React.js for News Feed HTML page (4h): Mar 12 – 15: Siddharth Paliwal
- Add dynamic content on webpage using React.js for Book Read HTML page (4h): Mar 12 – 15: Dishant Shah
- Add dynamic content on webpage using React.js for Add Friends HTML page (2h): Mar 15 – Mar 15: Dishant Shah
- Integrate the developed pages with the Bookstagram for Add Friends HTML Page(6h): Mar 16 – Mar 18: Dishant Shah
- Integrate the developed pages with the Bookstagram for News Feed HTML Page(6h): Mar 16 – Mar 18: Siddharth Paliwal
- Integrate the developed pages with the Bookstagram for Book Read HTML Page(6h): Mar 16 – Mar 18: Dishant Shah

Test:

- Testing for bugs and security issues (3h): Mar 17 – Mar 19: Everyone
- Testing all the functions for different type of scenarios (3h): Mar 17 – Mar 19

Other Tasks:

- Arranging SCRUM call throughout the Sprint-3: Mar 5 – Mar 19: Siddharth Paliwal
- Updating JIRA for Backlogs and Sprint Dashboard: Mar 5 – Mar 19: Siddharth Paliwal
- Sprint Analysis Documentation(4h): Mar 17 – Mar 19: All team members

Sprint Effective Planning: (10 days * 5 * 3 = 150 hr)

Requirement Gathering:

- Setup meeting with the customer for Milestone (45 m): Mar 1 - Neel Patel
- Prepare questionnaire to ask to customer (40 m): Mar 10 - All team
- Design UI Screens for all features to be develop for proposing design to customer (5h): Mar 7 – Mar 9 – Neel Patel
- Prepare questionnaire to ask to customer for additional meeting (30 m): Mar 10 – All team members.
- Setup additional meeting for requirements gathering with customer (1h): Mar 11 – Neel Patel

Specifications:

- Analyse the answers of customer from additional requirement meeting 1 (1h): Mar 11 – All team members.
- Design the user & friends post related fields & tables for database that includes comments, likes, friend links etc. (4h): Mar 8- Mar 17: Abishek Rajagopal
- Discuss how to integrate post feature and plan front end and backend development (1h): Mar 10- All team members.
- Design Database structure for link between user and his friends(3h): Mar 7 – Mar 12
- Plan & Design the UI/UX design of Bookshelf (3h): Mar 7 – Mar 10: Sayee Shruthi
- Analyze the answers of customer from additional meeting (2h): Mar 11 – All team members.

Implementation:

- Setup migrations in Framework for Database (3h): Mar 8: Abishek Rajagopal
- Implement HTML Static Webpage for News Feed (3h): Mar 8-12: Sayee Shruthi
- Implement HTML Static Webpage for Add Friends (2h): Mar 8-12: Neel Patel
- Implement HTML Static Webpage for Book Reading Button (2h): Mar 12-15: Sayee Shruthi
- Develop APIs for getting data from backend (6h): Mar 8 – Mar 17- Abishek Rajagopal
- Add dynamic content on webpage using React.js for Add Friends HTML page (3h): Mar 14 – Mar 15: Dishant Shah
- Add dynamic content on webpage using React.js for News Feed HTML page (4h): Mar 14 – Mar 15: Siddharth Paliwal
- Add dynamic content on webpage using React.js for Book Read HTML page (4h): Mar 16 – Mar 17: Dishant Shah
- Integrate the developed pages with the Bookstagram for Add Friends HTML Page(6h): Mar 15 – Mar 16: Dishant Shah
- Integrate the developed pages with the Bookstagram for News Feed HTML Page(6h): Mar 15 – Mar 17: Siddharth Paliwal
- Integrate the developed pages with the Bookstagram for Book Read HTML Page(6h): Mar 17 – Mar 19: Dishant Shah

Test:

- Testing for bugs and security issues (4h): Mar 17 – Mar 19: Everyone
- Testing all the functions for different type of scenarios (2h): Mar 18 – Mar 19

Other Tasks:

- Arranging SCRUM call throughout the Sprint-3: Mar 5 – Mar 19: Siddharth Paliwal
- Using JIRA for managing Backlogs and Sprint Dashboard: Siddharth Paliwal
- Sprint Analysis Documentation(4h): Mar 17 – Mar 19: All team members
- Gantt Chart for Sprint(4h): Mar 17 – Mar 18: Neel Patel
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Sprint Evaluation:

What worked well?

- Creating Prototype for asking for Customer Feedback was very valuable. We gained knowledge about new software for making prototypes.
- SCRUM Meetings were held regularly and discussed about what to do next, what is done and helping each other.
- Time required for making changes suggested by customer related to security was negligible.
- Customer Feedback Meeting taken in middle of the sprint helped us a lot in changing our approach.
- Getting some predefined CSS libraries, during the creation of HTML pages, helped a lot to save time in that task which would be taken in adjusting designing.
- Reusing of some code from the previously created frontend React.js module, helped to some extent, for saving the time so that not to prepare everything from scratch.

What didn't go well:

- Had to setup a new and configure Azure Server as we switched from our subscription. Server needed upgrade for Django and Apache setup
- Couldn't easily integrate Webserver Apache 2 with Backend Django server. Also, configure Apache to use python virtual environment.
- There were issues related to Linking Route Paths and defining methods for performing functionalities for Add friends and News Feed module.
- Integration of Front-end module along with Backend Database was time consuming and had to communicate frequently with each other.
- There were issues related to Serialization and Query Parameterization in integration of MongoDB and Django.
- Had to setup Django for Storing and Retrieving Images from Database.
- User Feed needed data from collected from three different Database Table and sorted
- Had to setup Book Referral Tree in database according to feedback from customer.
- Post which contains 2 types of post home post and Profile post took more time in implementation than expected.