**EPIC 1 :** Development and Deployment of an basic Android News Reading Application

**Feature 1 :** Backend Portion

**Story 1 :** Fetch news articles on a regular basis from news Api.

**Task 1 :** Develop firebase cloud functions to fetch data from News Api based on various filters like location, language etc.

(estimated date: 17/02/2021)

**Story 2 :** Store the fetched articles on backend database

**Task 1 :** Storage of the data on the firebase firestore database for future refrence.

(estimated date: 17/02/2021)

**Task 2 :** Indexing Data for fast fetching based on categories

(estimated date : tbd but before 11/03/2021)

**Feature 2 :** Frontend Portion

**Story 1 :** Basic news taskbar

**Task 1 :** Basic application with news cards with images

(estimated date: 27/02/2021)

**Task 2 :** Category wise news article division on frontend

(estimated date: 27/02/2021)

**Story 2 :** Search bar with filtering options

**Task 1 :** Build a search bar with filter options in the frontend

(estimated date : 27/02/2021)

**Task 2 :** Construct appropriate endpoints to handle user request at backend

(estimated date: 17/02/2021)

**Story 3 :** Sign In feature

**Task 1 :** Add functional ity to sign In using 3rd party authentications like Gmail, FB etc.

(estimated date: tbd)

**Task 2 :** Add user’s personalized profile page, with options to subscribe, view recommended articles etc.

(estimated date: tbd)

**EPIC 2 :** Development of ML portion and User profiling for personalized news feeds.

**Feature 1 :** User Profiling

**Story 1 :** Create user profile for non-registered users

**Task 1 :** Construct mechanism to extract user location, device ID etc.

(estimated date: 11/03/2021)

**Task 2 :** Conduct daily update about the user’s usage statistics

(estimated date : tbd)

**Task 3 :** Develop a backend mechanism to estimate the category the user belongs to (category 1 or 2 as mentioned in SRS)

(estimated date: tbd)

**Story 2 :** Create user profile for non-registered users

**Task 1 :** Construct mechanism to extract user location, device ID etc.

(estimated date: tbd)

**Task 2 :** Use details provided from the E-Mail Id user has signed in form as age, gender, religion etc.

(estimated date: tbd)

**Feature 2 :** ML Portion for predictive feeds

**Story 1 :** Training prediction model for each user individually

**Task 1 :** Choose the user profile properties that are required in prediction of articles to read.

(estimated date: tbd)

**Task 2 :** Designing a Model and training it on each individual user and storing the trained model in the Firestore database.

(estimated date: tbd)

**Story 2 :** Making Predictions of news articles for the user

**Task 1 :** User article suggested from the databased sorted in the order of the prediction model’s output.

(estimated date: tbd)

**Task 2 :** News notifications given on the mobile of users based on their interested domain extracted from prediction model.

(estimated date: tbd)

