

Checkpoint 2 - Simple Prototype

Blood Bank

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1) List of features needed for the MVP + Breakdown of tasks

Features Needed for the MVP:

1. User Registration and Authentication:

Task: We have Implemented secure signup and login systems for both donors and hospitals using email and password, the password is stored in firebase using encryption .

Breakdown of Tasks:

- A simple UI to signup and Login
- Service to post data to firebase
- Encrypt the password

Value: Allows users and hospitals to securely access the application and its features, this helps in creating a sense of trust and making sure the user's data is safe.

2. Donor Homepage with Event Listing:

Task: We have created a homepage for donors where they can view and interact with upcoming blood donation events from nearby hospitals and also the donor requests

Breakdown of Tasks:

- UI to see nearby hospitals and blood donation requests
- Services to post data to firebase

Value: Engages donors with current and future opportunities to donate blood, and also makes sure that they are aware of the events happening near them.

3. Hospital Functions:

Task: We have provided the hospitals with a dashboard to view and manage donor lists, request blood donations, filtering based on blood group, and schedule events.

Breakdown of Tasks:

- UI to show all donors
- UI to request Blood donations
- Filter functionality to filter based on blood group
- Service to retrieve blood donors
- Service to send request

Value: Enhances the hospital's ability to manage blood donations efficiently, streamlining the donation process and improving overall blood supply.

4. Notifications and Communication:

Task: We are using the email system as the push notifications is a paid service, any blood request will show in the app and the users will also get an email.

Breakdown of Tasks:

- UI to display blood requests
- Using gmail service to send email
- Service to store data in Firebase

Value: Keeps donors informed and also makes sure that they are notified in case of emergency situations.

5. Nearby Hospitals and Maps Integration:

Task: Allow donors to explore nearby hospitals and access directions via opening the maps app.

Breakdown of Tasks:

- UI to show nearby hospitals
- Service to retrieve user location
- Service to find nearby hospitals by retrieving all signed up hospitals from firebase

Value: Facilitates convenience for donors, making it easier for them to find and reach hospitals for blood donation especially during emergency situations.

2) Mapping between features and value(s) to be delivered by your app

Mapping between Features and Values:

1. User Registration and Authentication:

Value: Secure and reliable access to the application increases trust and user engagement, this goes hand in hand in creating a large user base.

2. Donor Homepage with Event Listing:

Value: Connecting donors with nearby events encourages participation and maintains a steady flow of blood supply. Also the homepage will have emergency requests section which is also sent through and email notification

3. Hospital Functions:

Value: Efficient management of blood donations by hospitals ensures that demand is met and emergency situations are addressed promptly. In case of emergency situations the hospital can filter based on blood group and notify all users with a particular blood group.

4. Notifications and Communication:

Value: Keeping donors informed and engaged improves user retention and allows quick response times for emergencies and helps us in meeting our success criteria.

5. Nearby Hospitals and Maps Integration:

Value: Convenience in locating and accessing hospitals can lead to increased donations and a better user experience by avoiding unnecessary hassle