HPDF 2017-18   Team-10 Draft

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Team-members

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Goals

We aim to build a platform to send notification using custom services in hasura and Google firebase to provide an integral framework in communication apps.

Walkthrough

Following are the initial steps planned to achieve the listed goals, mutually agreed among ReactJS Web React-Native Mobile and Node-JS Express Owners (*PyFlask owners still inactive).

Backend Features

Features of the Backend for the App are as follows.

1. Firebase cloud messaging service will be used for sending the notifications.
2. Authentication Service using Hasura Auth
3. Hasura Postgres instance for storing user's basic information as well as the group info.
4. Hasura Data API will be used for inserting and fetching data as requested by the front end
5. Hasura File API for sending files like images along with the notification.

Hasura Features to be used:-

1. Data Storage: - Postgres instance in the cluster will be used for storage of the messages such as history or records etc.
2. Inserting Or Fetching the data from the DB :- Hasura Data API
3. Hasura Auth will be used for providing the basic authentication services
4. Hasura File Api will be used for storing static files like images etc which might be sent in the notification.

Frontend Features

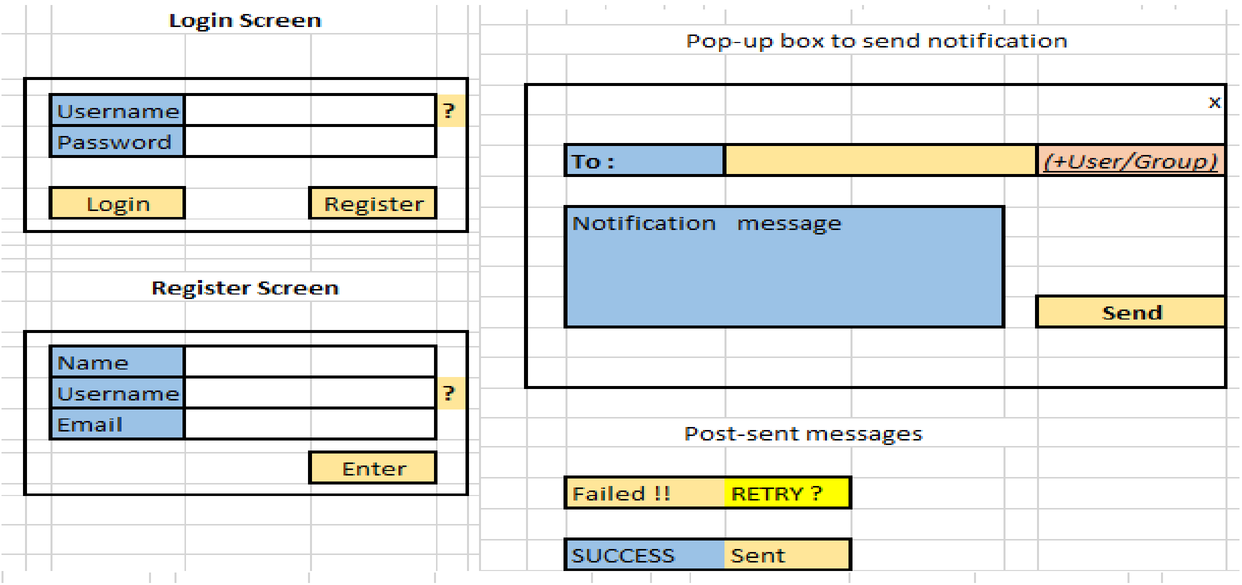
Sl. no.	Proposed Front end feature	Expected Hasura / Backend Feature
1	Login screen with user id and password box & a register button to add new users	Hasura auth & Hasura data API
2	Register screen with name, username, email and ph no.	Hasura data API
3	After login--User profile to add/edit user image, ph no. & email.	Hasura file API
4	Home screen with regular and admin functions with user support integration(help button)	Hasura auth & Hasura data API
5	Topmost USERS box to show scrollable user list (showing online & offline users separately with a green dot)	Hasura data API
6	Predefined GROUPS with a group msg button to display a list of groups , the user is a part of	Hasura data API
7	Select multiple users to create a new group	Hasura data API
8	Pop-up notification to display MOST RECENT received msg in 1 line or 100 characters as a summary header	Hasura data API
9	ALL Notifications button with a badge number for unread notifications	Hasura data API
10	On click- Display all sent,received & draft notification (different tabs) on clicking notif button	Hasura data API
11	Send to All button to send notifications for system wide changes or policy updates	Hasura auth & Hasura data API
12	Pop up dialog box to push a notification with send button	Hasura data API
13	Pop up dialog box to notify if the sending the notification was successful	Hasura data API
14	If not display a RETRY/resend button or edit the message before trying again	Hasura data API

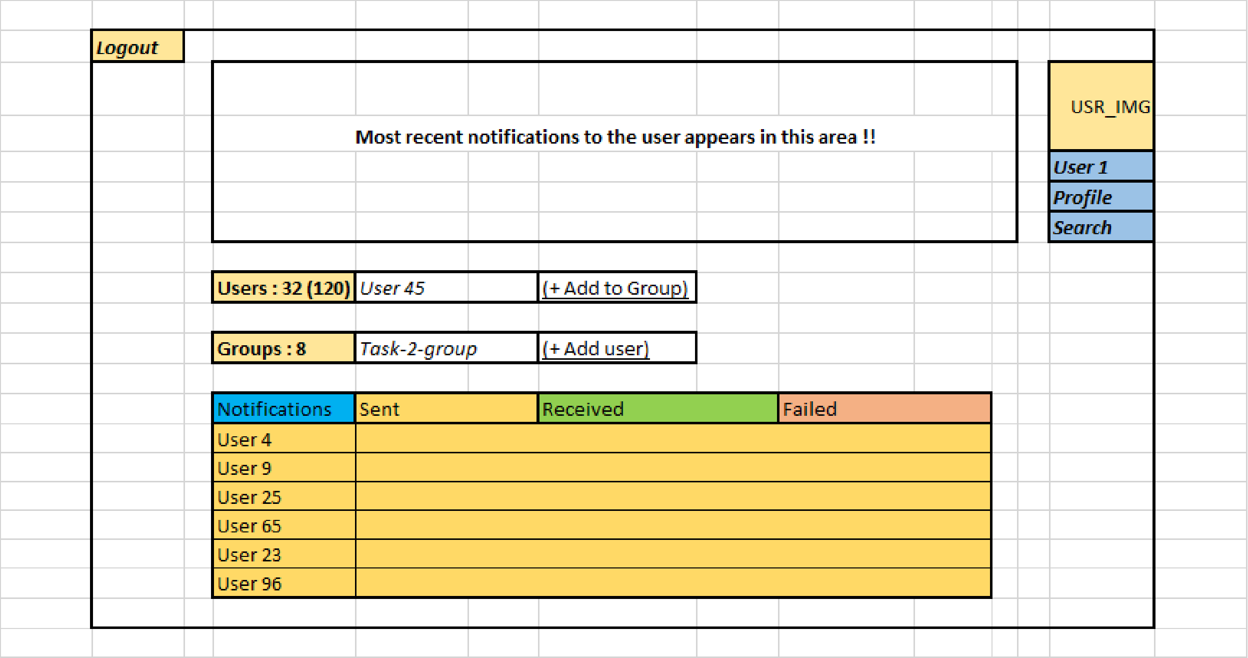
15	Logout button on upper left corner	Hasura auth

Backend Handling

Sl no.	Proposed Backend Features	Expected Hasura / Firebase Feature
1	Providing backend for the Authentication page of the front end , storing passwords locally on the server.	Hasura Auth , Hasura Data instance, Postgres instance
2	Providing Backend framework for storing user data in the app server	Hasura Data , Postgres Instance, Hasura File
3	Storing User Status (Logged in or logged out etc)	Hasura Data, Postgres Instance
4	Sending custom notifications , history of notifications	Firebase CMS, Hasura Data, Hasura File , Hasura Postgres instance
5	Notification Status Info	Hasura Data , Hasura Postgres instance
6	Error handling	*as required

Wire-frames of expected Frontend user interface that will be developed using ReactJS & ReactNative





Logout

Most recent notifications to the user appears in this area !!

USR_IMG

User 1

Profile

Search

Users : 32 (120)	*User 45*	(+ Add to Group)
Groups : 8	*Task-2-group*	(+ Add user)

Notifications	Sent	Received	Failed
User 4			
User 9			
User 25			
User 65			
User 23			
User 96			

The initial feature set of the app is kept optimal as directed at the start of HPDF, which will get further enhanced during iterative development.

- **Expected : Feedback from our mentor (Hasura-Vamshi)**
- **Link to assigned task :** https://drive.google.com/open?id=13B20p59ldyHCVZVlK21A39nYhfLAFgdOx2aIEen5VWE