

MindSpace - Self-awareness tool for mental wellbeing

Team 24: Eric Ka Yiu Ma, Yingyao Lu, Yiu Yeung Ng, On Ki Ng
Client: Dr Thushari Atapattu, Menasha Thilakaratne

Introduction

MindSpace is a cross-platform application that aims to help users enhance their emotional awareness.

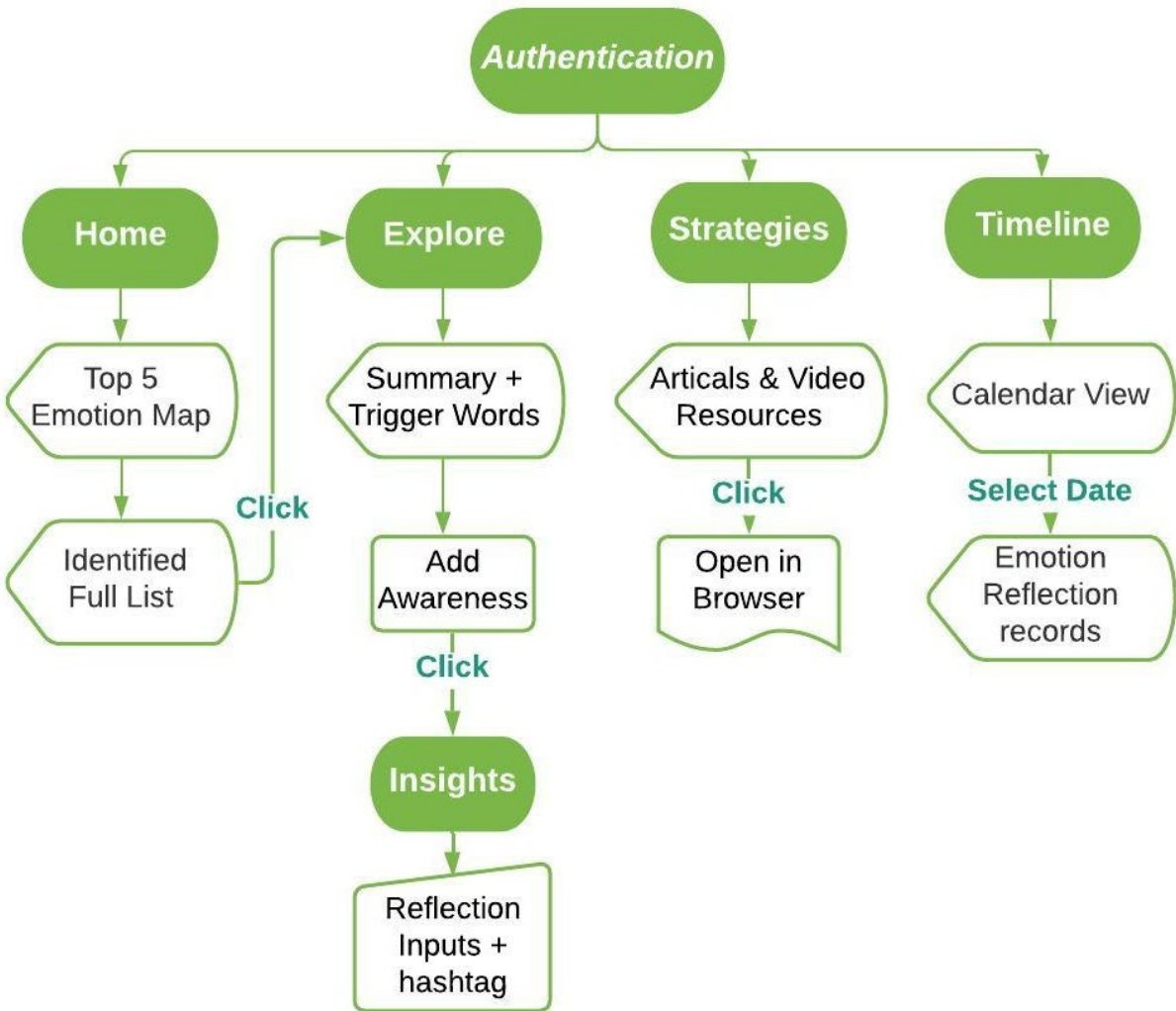
The application allows users to use a visual dashboard to analyse their emotions identified with their language overtime, make reflections on underlying emotions and triggers, and provides useful resources to cope with emotional problems.

Used Software & Tools

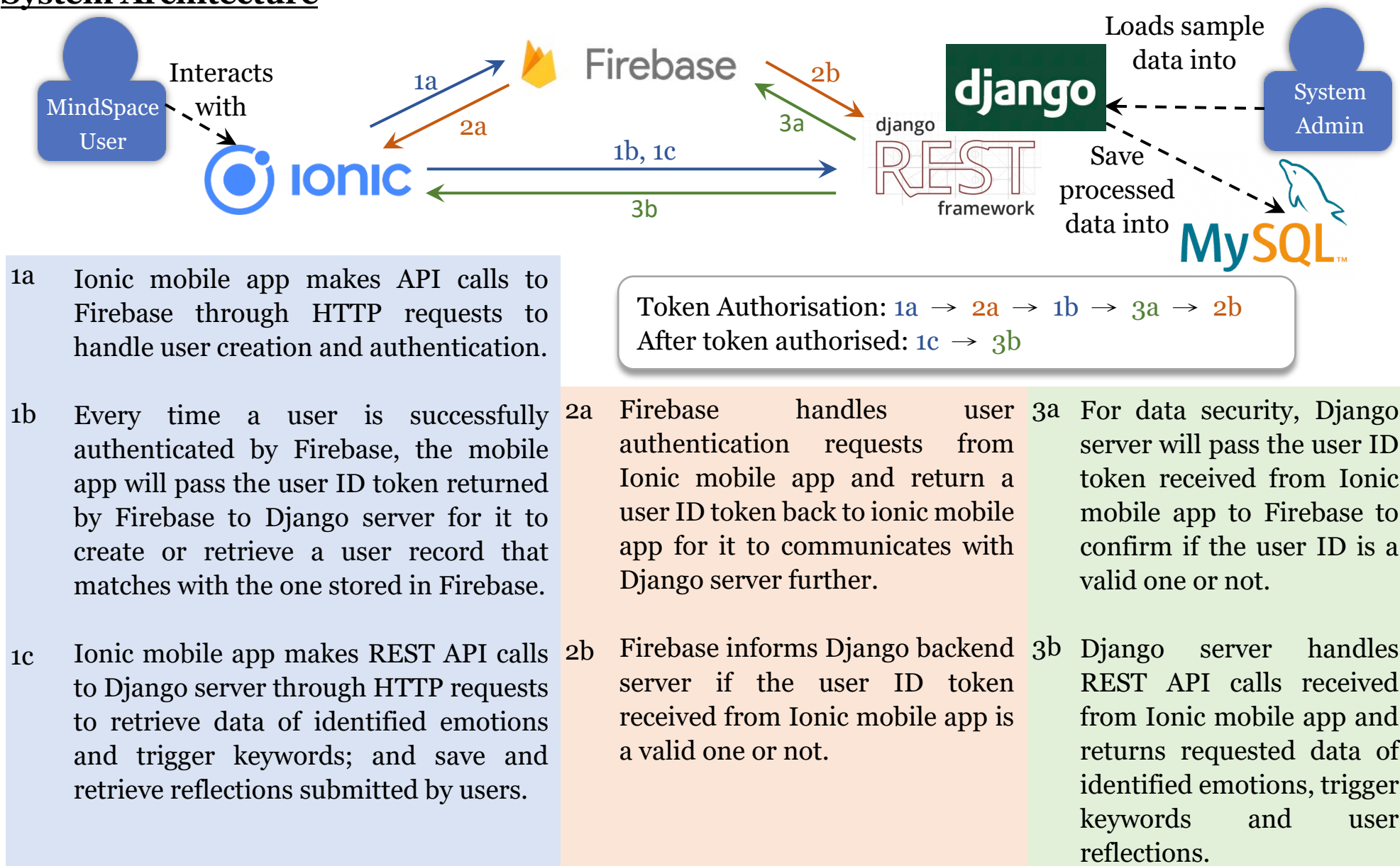
- Ionic - Cross-platform development
- Angular - Single-page client application with HTML, Sass and TypeScript
- Firebase - Token-based authentication
- Django - Python web framework
- Django REST - REST API
- MySQL - Relational database management
- Docker - Consistent development environment and distribution

Key components

Key concepts



System Architecture



Milestones

- Milestone 1
1. Create all pages with functioning routing and navigation.
 2. Full functionalities of 'Landing' page as the first screen after opening the application.
 3. Frontend design of 'Sign up & Login' page.
 4. Frontend functionalities of 'Home' screen.

- Milestone 2
1. Full functionalities of 'Explore', 'Strategies', 'Insight' and 'Timeline' page.
 2. Backend endpoint for uploading and retrieving insight input by users.
 3. Import 'trigger keyword sample data' to test the backend functionalities.
 4. Modify backend endpoint for trigger keywords and number of occurrences of each emotion detected.

Achievements

- We have finished all the activities listed on Milestone 1 and 2.
- Extra tasks required by clients are also accomplished:
1. Authentication using Firebase which supports user sign-in with email and Google account.
 2. Setting up a database in Django server for creating, reading, and updating user's information, emotion record, and reflection input.

Extensions

1. Retrieve data from social media and keyboard.
2. Cross platform availability to be deployed to both iOS and Android.
3. Provide strategies for handling emotion by our own and paid mediation courses for profit.

Conclusion

1. We have finished all the milestone and clients' requirement, the full functionalities of project MindSpace are implemented.
2. MindSpace visualizes user emotion data in daily, weekly, and monthly basis.
3. MindSpace stores user data using Django sever running with MySQL database for sending and retrieving data.
4. MindSpace provides user login and signup service by using authentication service in firebase.