



CmpE 451 - Final Milestone Report

Bonibon - Language Learning Platform

Group 5

January 2, 2020

Contents

- 1.** Final Project Assessment
 - 1.1.** Project Introduction
 - 1.2.** Project Status
 - 1.3.** Lessons Learned
- 2.** List and Status of Deliverables
- 3.** A Summary of Work Done by Each Team Member
- 4.** Annotation Implementation & W3C Standard Compliance
- 5.** API Documentation
- 6.** Requirements
 - 6.1.** Glossary
 - 6.2.** Functional Requirements
 - 6.2.1.** User Requirements
 - 6.2.2.** System Requirements
 - 6.3.** Non-functional Requirements
- 7.** Design Documents
 - 7.1.** User Scenarios
 - 7.2.** Diagrams
 - 7.3.** Mockups
- 8.** User Manual
- 9.** System Manual
- 10.** Project Plan

1. Final Project Assessment

1.1 Project Introduction

Bonibon is language learning platform open to anyone. You can sign up for free, learn new languages, do exercise anytime and help others with languages you are good at. There are four types of exercises: listening, reading, writing, vocabulary. Bonibon also gives you an opportunity to chat with other learners and experts as well as to improve your writing skills by sending other users essays and getting feedback. You can follow up your progress and level. Bonibon accepts contributions from the community. If you want to contribute to our system, you can suggest new exercises so that other people can make use of your language skills.

1.2 Project Status

API: We have designed and implemented the interfaces for all of our requirements.

Requirements: We defined functional and non-functional requirements. Functional requirements has user and system requirements. Non-functional requirements has availability and accessibility, performance and response time, annotations, reliability, security, privacy and GDPR.

Mockup - User Stories - Personas: We defined different personas and corresponding user scenarios.

Backend: Completed.

Android App: Satisfies the vast majority of the requirements. All of the basic functionality is in place. Is written in Java, using the native Android framework.

Web App: Satisfies the same functionalities as Android App. Is written using React.

1.3 Lessons Learned

We learned to work together as a group to accomplish a common goal, on both social and technical aspects. We learned to use industry standard tools such as Github, Git, Android Studio, PostgreSQL, React, Django, JUnit and Mockito. We became experienced in the full software development lifecycle, from design to implementation, requirements engineering to customer meetings.

2. List and Status of Deliverables

Name	Delivery Date	Status
Android: Login Page	October 22, 2019	Delivered
Android: Registration Page	October 22, 2019	Delivered
Android: Language Selection Page	October 22, 2019	Delivered
Android: Proficiency Exam Page	October 22, 2019	Delivered
Android: Proficiency Exam Result Page	October 22, 2019	Delivered
Android: Main Menu Page	October 22, 2019	Delivered
Android: Exercise and Exercise Result Pages (Grammar, Vocabulary, Reading)	November 26, 2019	Delivered
Android: Profile Page	November 26, 2019	Delivered
Android: Essay functionality	November 26, 2019	Delivered
Android: Chat history and new message	November 26, 2019	Delivered
Android: User Search Page	November 26, 2019	Delivered
Android: Exercise Search Page	November 26, 2019	Delivered
Android: New Exercise Suggesting Page (Grammar, Vocabulary, Reading)	November 26, 2019	Delivered
Android: Text and Image Essay Annotation Improvements	December 24, 2019	Delivered
Android: Listening Exercise Suggestion	December 24, 2019	Delivered
Android: User Rating/Commenting	December 24, 2019	Delivered
Android: User Manual	December 24, 2019	Delivered
Android: User friendly Chat Navigation	December 24, 2019	Delivered
Android: Real-time user search in Chat	December 24, 2019	Delivered
Android: User friendly progress tracking	December 24, 2019	Delivered

Android: Listening Exercise	December 24, 2019	Delivered
Android: Incoming Essay Notification	December 24, 2019	Delivered
Web: Home Page	October 22, 2019	Delivered
Web: Login Page	October 22, 2019	Delivered
Web: Registration Page	October 22, 2019	Delivered
Web: Language Selection Page	October 22, 2019	Delivered
Web: Proficiency Test Page	October 22, 2019	Delivered
Web: Test Result Page	October 22, 2019	Delivered
Web: Grammar Exercise Page	November 26, 2019	Delivered
Web: Listening Exercise Page	November 26, 2019	Delivered
Web: Vocabulary Exercise Page	November 26, 2019	Delivered
Web: Writing List Page	November 26, 2019	Delivered
Web: Profile Page	November 26, 2019	Delivered
Web: Essay Functionality	November 26, 2019	Delivered
Web: Chat Page	November 26, 2019	Delivered
Web: Exercise Page with Search	November 26, 2019	Delivered
Web: Recommendation Page (user)	November 26, 2019	Delivered
Web: New Exercise Suggesting Page	December 17, 2019	Delivered
Web: User and Exercise Search	December 17, 2019	Delivered
Web: User Rating/Commenting	December 17, 2019	Delivered
Web: Chat History	December 17, 2019	Delivered
Backend: All endpoints	November 26, 2019	Delivered

3. A Summary of Work Done by Each Team Member

Team Member	Contribution
Hasan Öztürk	<p>As an Android developer, I</p> <ul style="list-style-type: none"> - Developed real-time user search bar in the chat screen - Improved chat navigation based on the feedback of the customers - Developed listening exercise - Made GUI improvements as needed - Created new exercises, especially listening exercises for English
Furkan Kadıoğlu	<ul style="list-style-type: none"> - Everything about backend - DevOps - Enhancement of endpoints for Web and Mobile in order to increase convenience
Kartal Kaan Bozdoğan	<ul style="list-style-type: none"> - Created the Android app proficiency exam, exercise, commenting/rating and writing essay functionalities - Added real-time capabilities to the chat screen - Improved compatibility for various versions of Android - Improved the layouts of various screens in the app - Contributed to many minor GUI improvements - Solved merge conflicts - Reviewed merge requests - Created the Android app skeleton - Created the Android app user manual - Created exercise data
Ali Meriç Deşer	I have worked on Android side :

	<ul style="list-style-type: none"> - Search with backend integration - Search Result Page - Application Progress view - I have fixed some bugs occurring from other issues and some integration problems - Improved the language selection screen - View issues & Templates - Tested some features, opened issues related them contributed fixing them, merged some PRs - Created some Exercise Data & Proficiency Questions
Meltem Suiçmez	<p>Contributed as a frontend team member, using react.js</p> <ul style="list-style-type: none"> - Created language selection and guest-login pages - Visual design and style of the login, sign-up, home, about and language selection pages. using paint for logos and backgrounds, and react-bootstrap and material-ui libraries. - Added question data. - Created profile page of self and other users - Created exercises page that shows selected language and exercise type's available exercises id, also filters them by keyword - Created search bar and page for user and exercise searches. - Wrote unit tests using jest and react-testing library for frontend.
Nevzat Ersøy	<ul style="list-style-type: none"> - Contributed as a backend team member, using django on python. - After Milestone 1 I have contributed to backend as tester, writing texts and fixing any detected problems in the code. - I have updated the wiki requirements.

	<ul style="list-style-type: none"> - I have created exercise data for backend. - Prepared the project plan.
Selamettin Dirik	<ul style="list-style-type: none"> - Contributed as a frontend team member, using react.js - Created vocabulary test page that shows a random test according to users selected language and level - Created grammar test page similarly. - Created listening test that plays audio file. - Reviewed and merged Mert's pull request for recommendation page - Have worked for solving the bugs concerning test results.
Mahmut Uzunpostaclı	<p>After the second milestone I have developed following features in Android app:</p> <ul style="list-style-type: none"> - Added a notification functionality and button that turns active if there's at least one pending essay for review and directs user to the list of pending essays. - Added listening exercise upload functionality - Added listening exercise suggestion functionality to suggest exercise screen - I have reviewed some pull requests - I have fixed some bugs that interfere with user navigation - I have created some users and exercises and edited that are wrong.
Abdullah Enes ÖNCÜ	<ul style="list-style-type: none"> - Exercise suggestion page for all type of exercises (listening, vocab...) is implemented. - Listening exercise is implemented. - Chat history is implemented. - Chat is added to writing annotation page.

	<ul style="list-style-type: none"> - Most of the components are restyled by using bootstrap and react flex structure. - I tried to fix bugs in the system before demo.
Yusuf Mert Bila	<p>I worked in frontend team:</p> <ul style="list-style-type: none"> - Designed and implemented a left navigation bar for the website. - Designed and implemented user comment component. Added it to user profile page. <p>I also helped deployment of backend</p>

4. Annotation Implementation & W3C Standard Compliance

Our annotation data model, which can be found within the API documentations, is partially compliant to the W3 annotation model recommendation 23 February 2017.

The W3 document describing the annotation data model can be found at <https://www.w3.org/TR/2017/REC-annotation-model-20170223/>

We use the *plain text* selector for annotating text essays. For image essays, we use a slightly modified version of the *media* selector that specifies coordinates in floating point percentages, rather than integer percentages. The pertinent fragment specification can be found at <https://www.w3.org/TR/media-frags/>

Our implementation details of essay annotations can be found within the API documentation. To summarize, a *GET* request to the /annotation/ endpoint returns existing annotations for a given essay. The returned data is in JSON format, and conforms to the model specified in the aforementioned document. A *POST* request to the same endpoint creates a new annotation. It should be noted that the backend relieves the frontends from having to generate some of the fields specified in the W3 model. The Android application uses an external library to facilitate the marking of image essays.

5. API Documentation

Swagger <http://35.156.237.253/docs/>

Redocs <http://35.156.237.253/redocs/>

Openapi <http://35.156.237.253/openapi/>

6. Requirements

1. Functional Requirements

- 1.1. User Requirements
 - 1.1.1. Registration and Login
 - 1.1.1.1. Users shall be able to either create an account or continue as a guest user.
 - 1.1.1.2 Registered User
 - 1.1.1.2.1. Users shall be able to sign up by providing a username with at most 10 characters, an email, at least six character long password and native language.
 - 1.1.1.2.2. Users shall be able to login to the application by providing his/her username or email and password.
 - 1.1.1.3 Guest User
 - 1.1.1.3.1. Guest users shall have limited access to content.(Only first exercises of exercise types)
 - 1.1.1.4 Admin User
 - 1.1.1.4.1. Admin users shall be able to delete abusive content and users.
 - 1.1.1.4.2. Admin users shall be able to alter the content of exercises.
 - 1.1.2. Course Material
 - 1.1.2.1. Users shall be able to apply to any language he/she wants to learn.
 - 1.1.2.2. Users shall be able to request a proficiency exam, with respect to users' level, to level up. Users shall be able to level up if their number of correct answers is at least twice as many as their incorrect answers
 - 1.1.2.3. Users shall be able to take listening, reading, grammar, vocabulary exercises.
 - 1.1.2.4. Users shall be able to access the lower level contents.
 - 1.1.2.5. Users shall be able to suggest new material for a language.

- 1.1.2.6. Admins shall review and approve suggested new materials to the system.
- 1.1.2.7. Users shall be able to see the *correct* answers after the *exercise*.
- 1.1.3 Writing Assignment
 - 1.1.3.1. Users shall be able to upload a text file or image file that includes text as a writing exercise
 - 1.1.3.2. Users shall be able to select one user and see recommended users who are provided by the application.
 - 1.1.3.3. Users shall be able to communicate with the users that are currently reviewing his/her writing exercise through a built-in communication mechanism
 - 1.1.3.4. Users shall be able to reject an essay request.
- 1.1.4 Annotation in writing exercise
 - 1.1.4.1 Users shall be able to annotate essays that are in either text or image form, as a feedback for the writing exercises
 - 1.1.4.2 Users shall be able to annotate a text or image in a course content.
- 1.1.5 Chat
 - 1.1.5.1 Users shall be able to chat with other users.
- 1.1.6 Tracking for progress
 - 1.1.6.1 Users shall be able to track progress and what she/he accomplished so far.
 - 1.1.6.2 Users shall be able to see statistics about the ratio of completed exercises.
 - 1.1.6.3 Users shall be able to view average grade.
- 1.1.7 Rating & Comment
 - 1.1.7.1 Users shall be able to view user's rates and comments about her/him.
 - 1.1.7.2 Users shall be able to vote users to whom they've sent an essay.
 - 1.1.7.3 Users shall be able to comment about users to whom they have sent an essay.
- 1.1.8 Search
 - 1.1.8.1. Users shall be able to search a user and a content semantically through keywords.
 - 1.1.8.2. Users shall be able to do advanced search a user and a content through tags.

- 1.1.8.3. Users shall be able to suggest tags and keywords about material which they suggest.
 - 1.1.8.4. Admin users shall be able to approve or reject the suggested tags for the materials.
- 1.2. System requirements
 - 1.2.1 Recommendation
 - 1.2.1.1 The system shall provide a recommendation mechanism for users in order to suggest a set of users that are eligible to review a writing exercise.
 - 1.2.2 Search
 - 1.2.1.1 The system shall provide a mechanism for searching a content semantically.
 - 1.2.1.2 The system shall provide a mechanism for searching a content with exact matching.
 - 1.2.3 Education Language
 - 1.2.3.1 System shall supply materials for learners in Turkish, English and German.
 - 1.2.4 Commenting and Rating
 - 1.2.4.1 System should keep comments and votes mentioned in 1.1.7 and evaluate overall ratings for the relevant user profiles.
 - 1.2.5 Annotation
 - 1.2.5.1 The system shall provide an annotation mechanism for users to annotate a text, an image file or a part of an image file.
 - 1.2.6 Communication System
 - 1.2.6.1 System should provide an interface for communication between *users*.
 - 1.2.7 Adding New Learning Materials
 - 1.2.7.1 System should redirect the materials suggested from users mentioned in 1.1.2.5 to admins in order to get approval about materials.
 - 1.2.8 Apparency & Privacy
 - 1.2.8.1 System should maintain the privacy by restricting the accessibility to user profiles from guest users.
 - 1.2.8.2 System should restrict guest users from rating & commenting for the user profiles.
 - 1.2.9 Progress & Statistics
 - 1.2.9.1 System should provide an interface to let user track and monitor his/her progress.

- 1.2.9.2 System should also provide statistics of ratio of completed exercises, average grade.
- 1.2.10 Automatic Grading
 - 1.2.10.1 System shall automatically grade listening, reading, grammar and vocabulary exercises and shall be capable of highlighting the correct answer if the provided one by the user is wrong.

2. Nonfunctional Requirements

- 2.1. Availability and Accessibility
 - 2.1.1. The system should work on any web browsers except IE10 and older versions.
 - 2.1.2. The application shall be provided for Android 7 and later versions.
 - 2.1.3. The system should inform the user if the application is not able to provide a service.
 - 2.1.4. If a failure happens, the problem should be fixed within 1 hour.
- 2.2. Performance and Response time
 - 2.2.1. The system shall block an excessive amount of access requests made in a short amount of time.
 - 2.2.2. The system shall back-up user-expert messages once a month.
 - 2.2.3. The system shall use encryption for user messages and passwords.
- 2.3. Annotations
 - 2.3.1. W3C Web Annotation Data Model shall be used for writing exercises which are annotated by learners and experts.
 - 2.3.2. Implementation of this system will follow the standards introduced by the World Wide Web Consortium (W3C).
- 2.4. Reliability
 - 2.4.1. The system shall endure up to 250 users without breaking.
 - 2.4.2. The system shall provide materials to searches within 3 seconds.
- 2.5. Security
 - 2.5.1. The system should use input validation.
 - 2.5.2. The authorization should always be done on the server side.
 - 2.5.3. The system should not use redirect to prevent header injection.
 - 2.5.4. The system should sanitize the user input.
- 2.6. Privacy and GDPR
 - 2.6.1. The system should have a privacy policy and this policy should be seen easily by users.

- 2.6.2. The user should have right to object processing of self data for direct marketing.
- 2.6.3. The user should have right to object processing that is based on profiling.
- 2.6.4. The system should not collect or try to predict users personal data like religion, gender, identity, race, political leanings.

7. Design Documents

These mockups were prepared during Cmpe 352 as an insight to our project.

7.1. Mockups

7.1.1. Web Mockup - Writing Exercise & Annotation

1. Recommended Users section contains users who have previous experience on reviewing essays. Their experience is determined by previous reviews and ratings voted by the users.

A Web Page

<https://www.happy5.com/writing>

Happy Writing

Recommended Users

Profile	Tom Hanks	View Profile	4.7/5
93 Writing Revisions 96 Comments Areas of Interest: Medicine		Send Essay	out of 300 ratings
Exercise	Julia Roberts	View Profile	4.2/5
12 Writing Revisions 19 Comments Areas of Interest: Photography		Send Essay	out of 120 ratings
Writing	Mert Maysallar	View Profile	2.6/5
56 Writing Revisions 43 Comments Areas of Interest: Music, swimming		Send Essay	out of 300 ratings
Chat			
Settings			

2. Since Mert wanted to write an essay about medical topics, and he sees that "Medicine" is written at the Areas of Interests section of Tom Hanks, he thinks that it's a good idea to send his writing portfolio to Tom Hanks to be reviewed.

A Web Page
https://www.happy5.com/writing/tom_hanks

Happy 5

Profile

Exercise

Writing

Chat

Settings

Tom HANKS

Master

Hello I am Tom, I am currently actor.
Fell free to send me your drafts man!

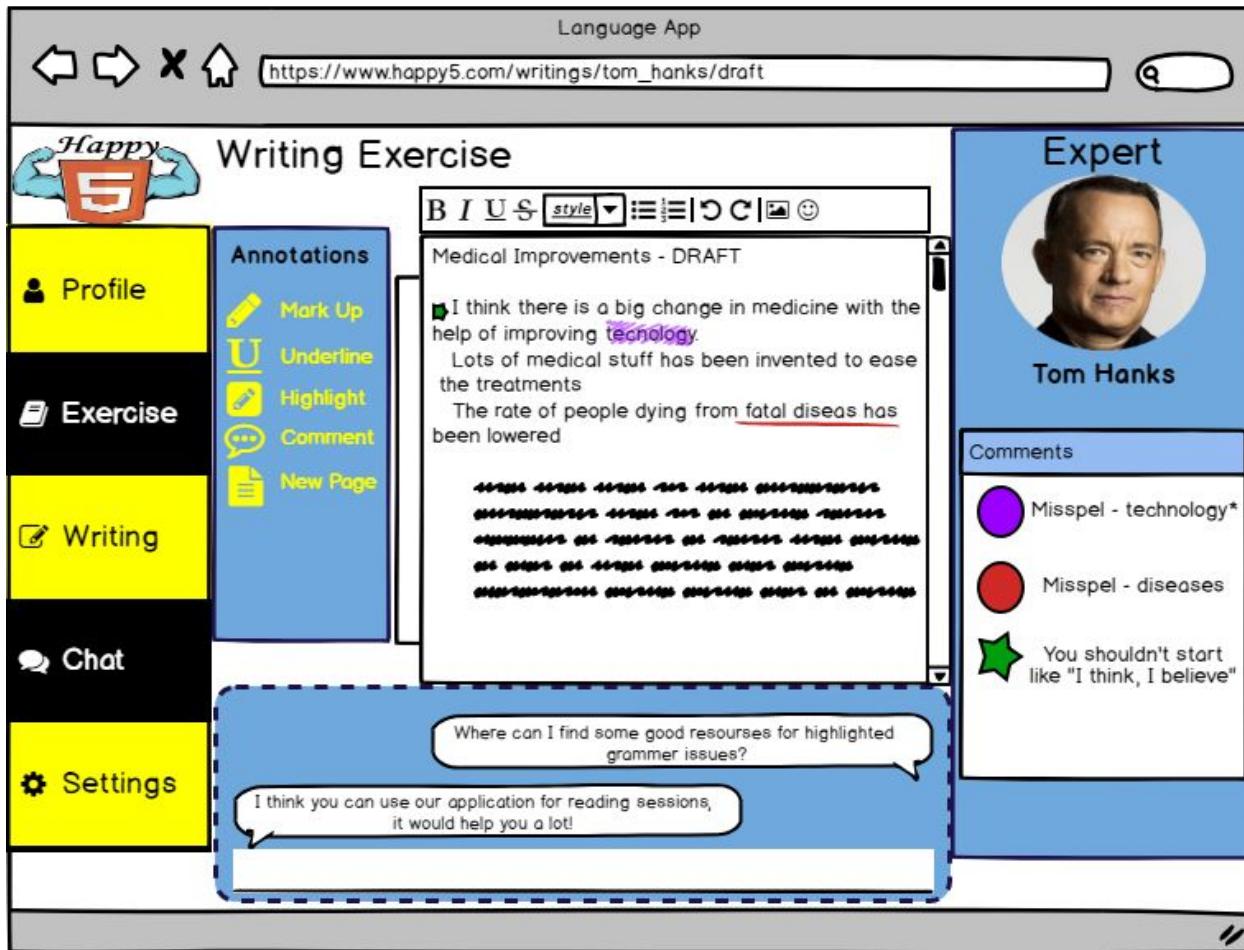
4.7/5

Comments

Selamettin Dirik ★★★★☆
I've sent my protolio. He is a great commentor on essays. I am satisfied.

Furkan Kadioğlu ★★★★☆
He is good on commenting but his chatting ability is not enouah.

3. Mert reads the comments about him and sees nothing criminal about Tom Hanks and sends his writing by clicking "Send Your Writing Portfolio" button



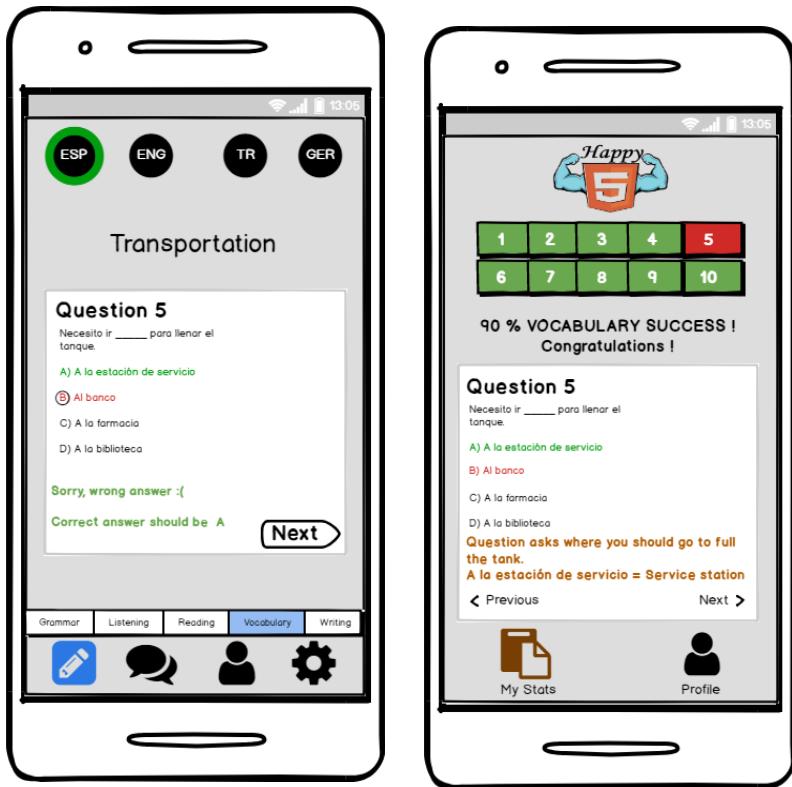
- After sending his writing, he gets a quick return by experienced expert Tom Hanks. Mert is able to see his mistakes annotated by Tom, edit by Annotation tools on the left.

7.1.2. Android Mockup - Doing Exercise & Viewing Stats

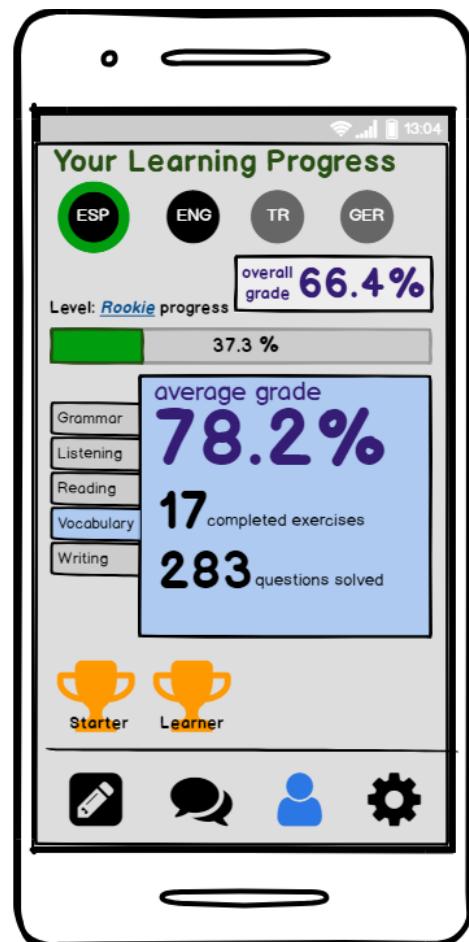
- Aliye logs in to Happy5 by typing her email address and password.
- She sees vocabulary exercises to choose from and she chooses the transportation subject.



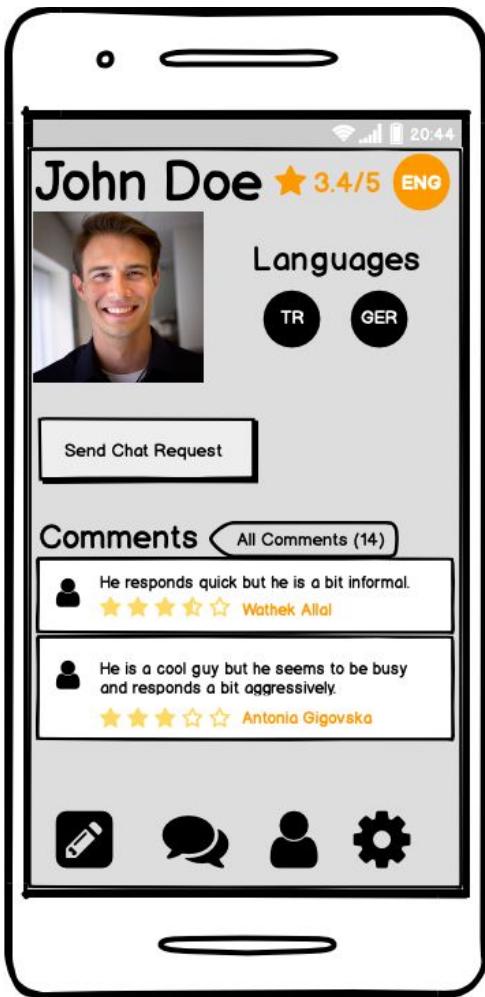
3. As she marks each question, she gets to see each questions' result right away. She makes a mistake on Question5 and sees the correct answer.
4. She finishes her exercise and the result page of the exercise opens up. In this page she gets to see how well she's done and learn more about the wrong questions.
5. She looks at her wrong answer and learns and understands the true answer.



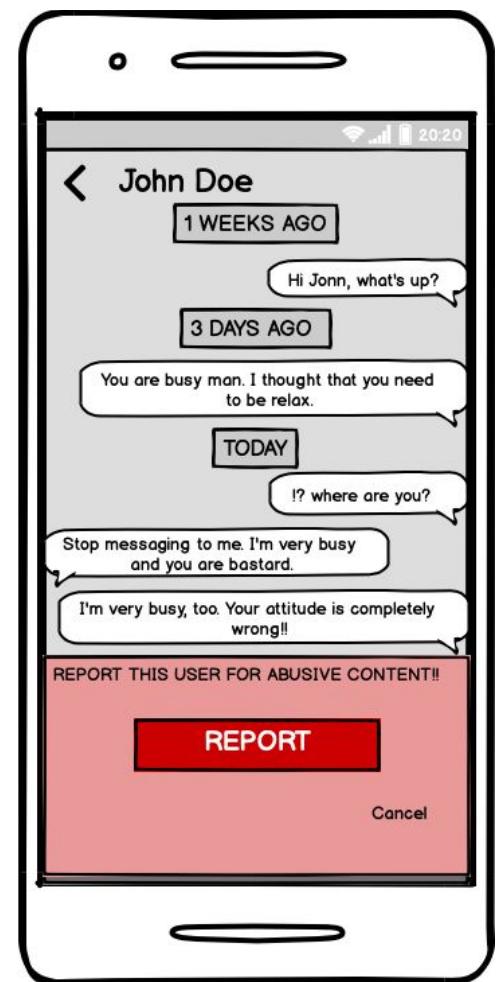
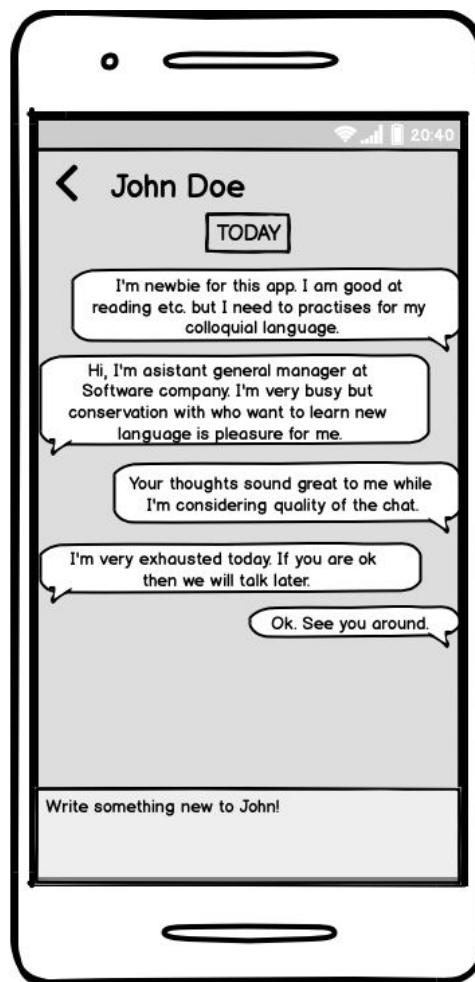
6. She clicks “My Stats” button to go to her statistics page to review her overall performance so far.
7. She views her current progress in her current level(Rookie). She can also view her progress in each category and she views her vocabulary progress. She sees her overall and vocabulary grades, how many exercises and questions she has solved and her achievements from the lower levels.



7.1.3. Android Mockup - Chat and Report

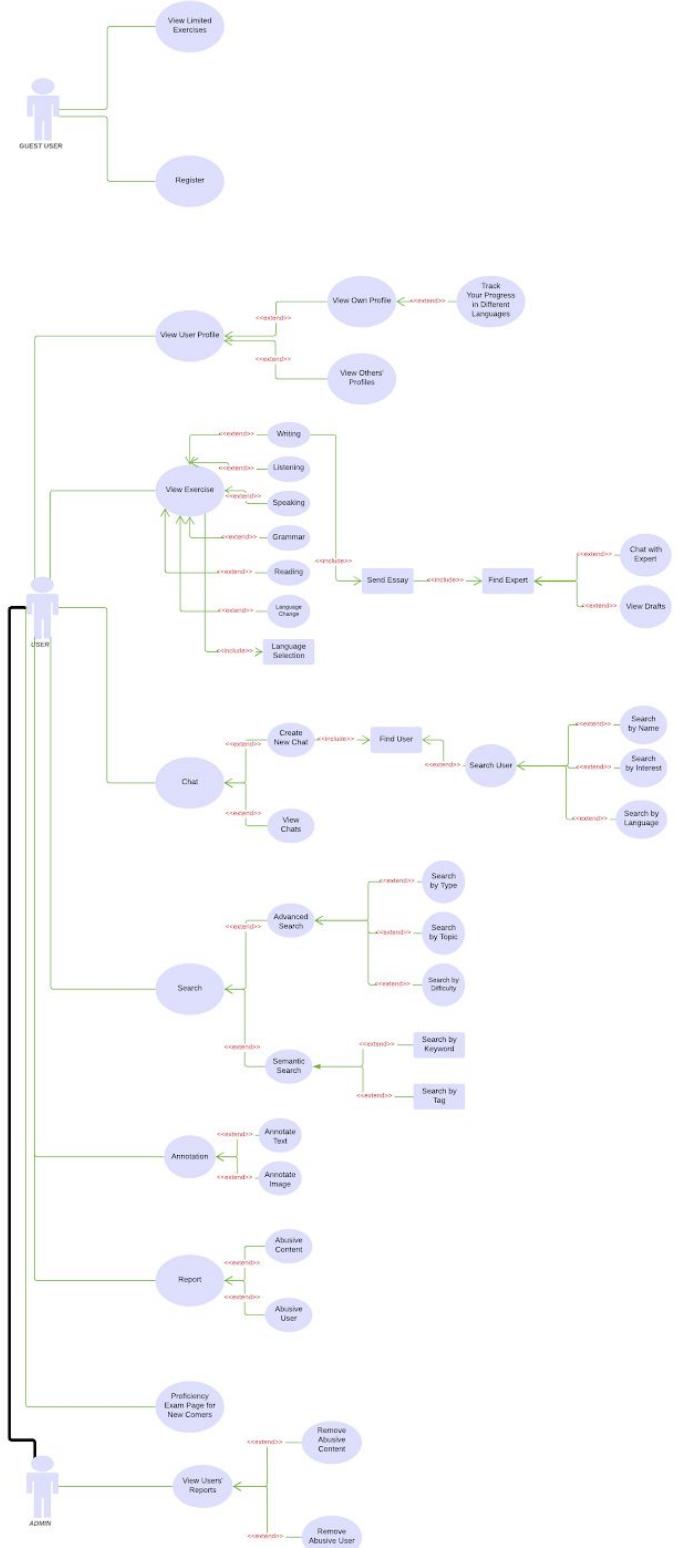


1. User enters to the app and searches for users to chat with. He chooses John Doe and enters to his profile.
2. User can see John Doe's rating and comments about him. He can see his native language next to his rating. User also can see his other languages.
3. User clicks to "Send Chat Request" button.
4. John Doe accepts his request to chat with him.
5. They start to chit chat and continue for a while.
6. John Doe sends inappropriate message and user reports him.

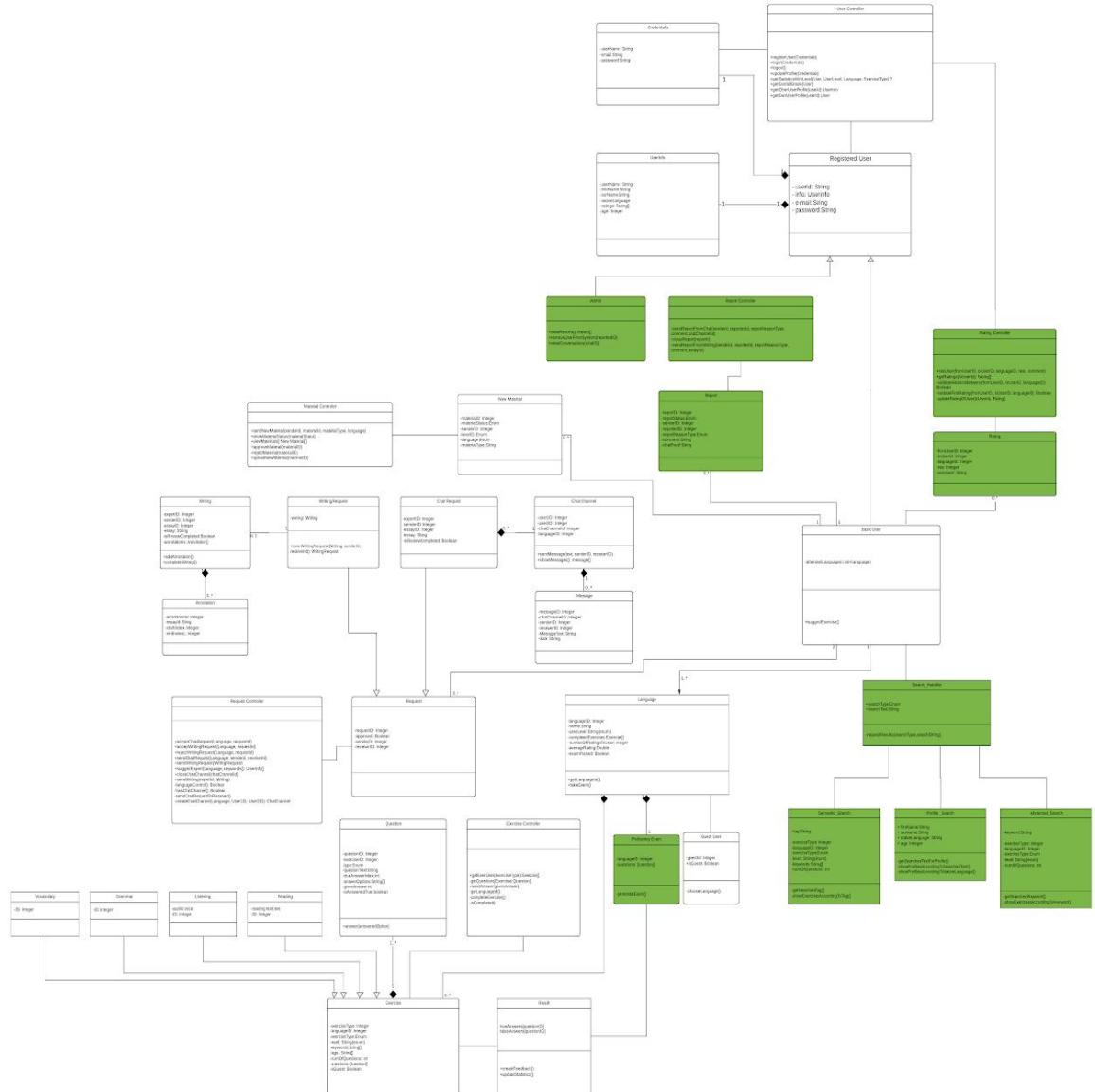


7.2. Diagrams

7.2.1. Use Case Diagram

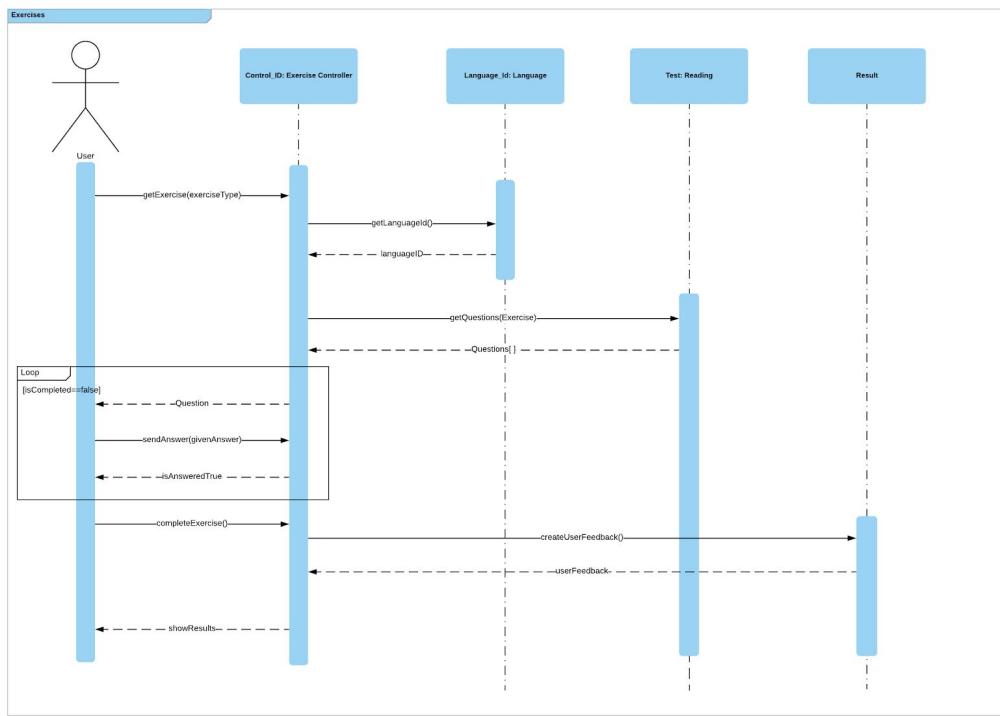


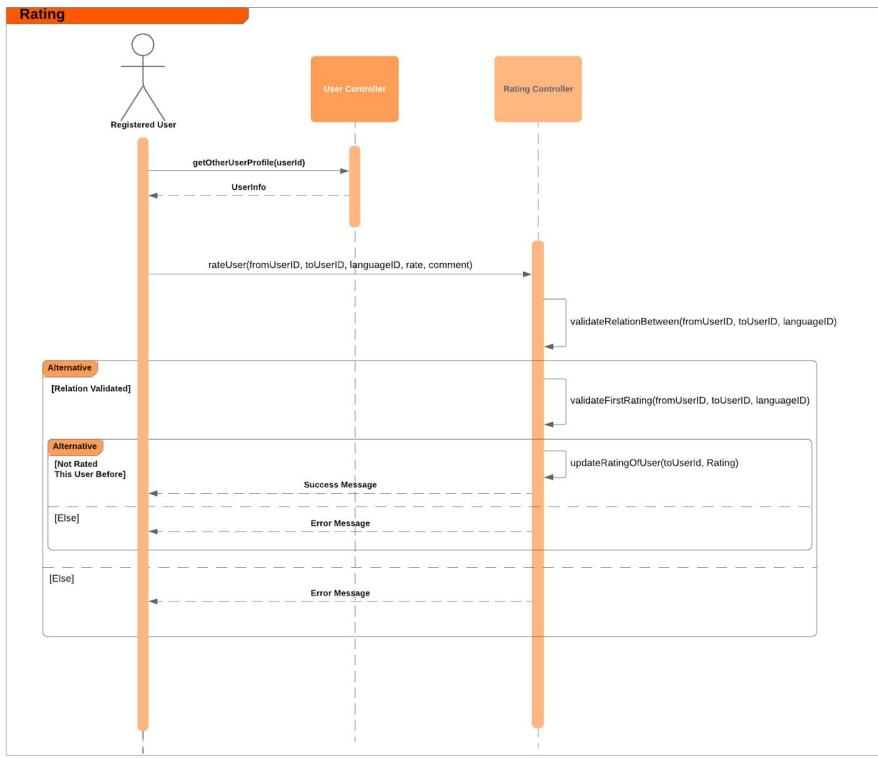
7.2.2. Class Diagram



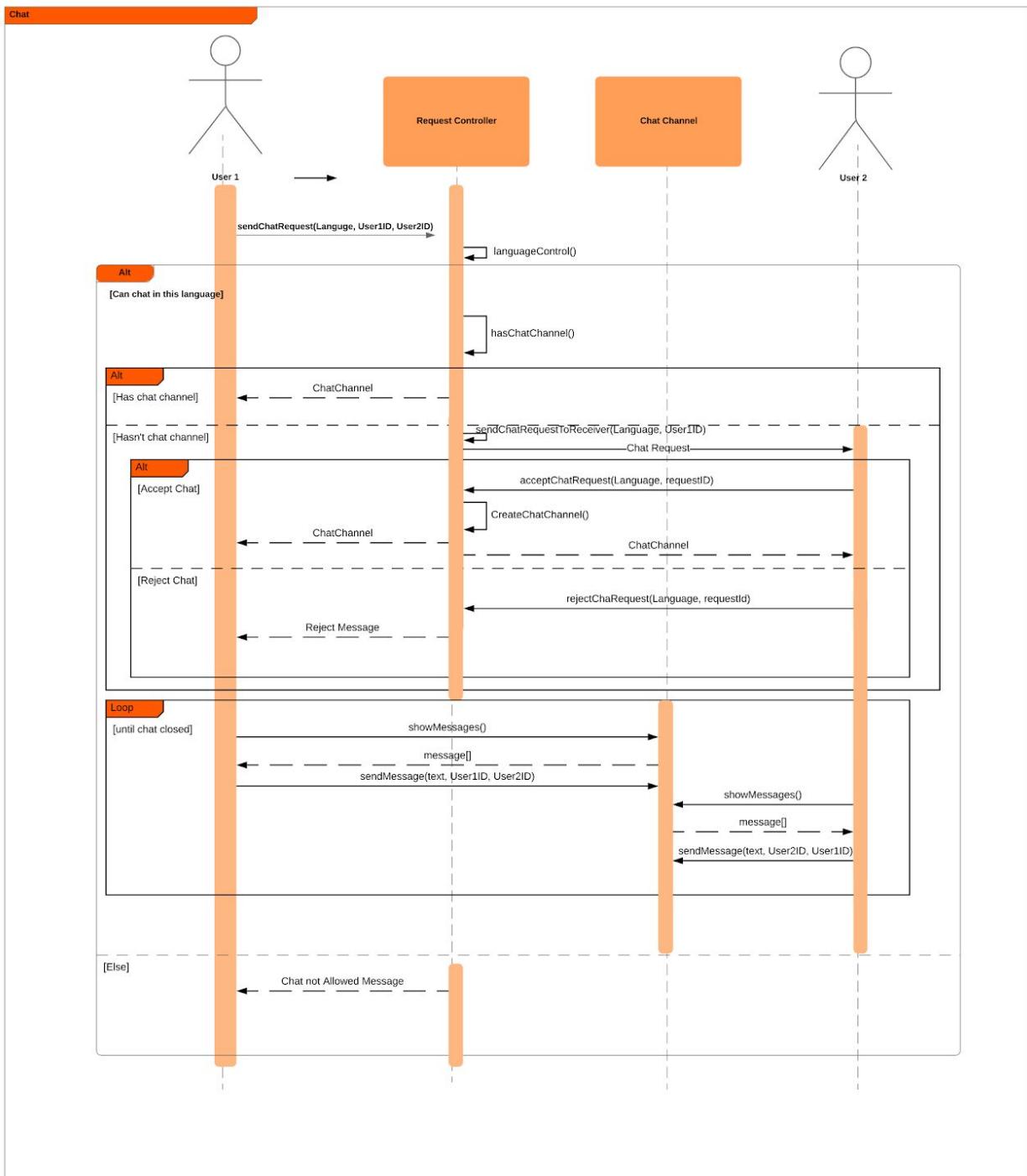
7.2.3. Sequence Diagrams

Sequence Diagram - Exercises

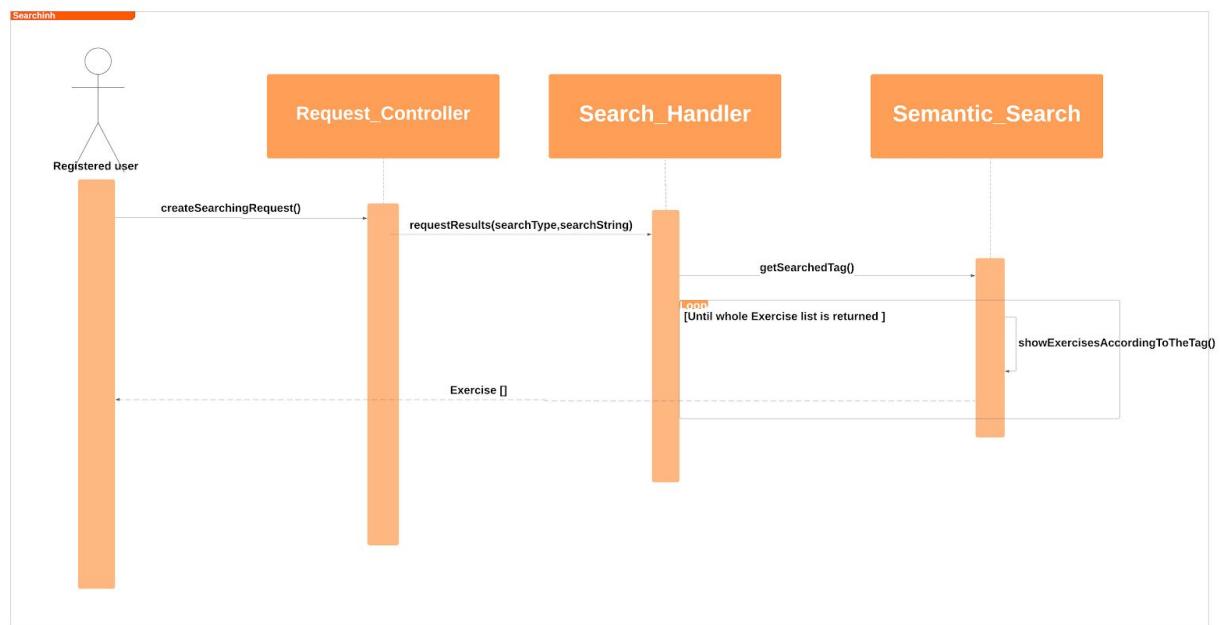




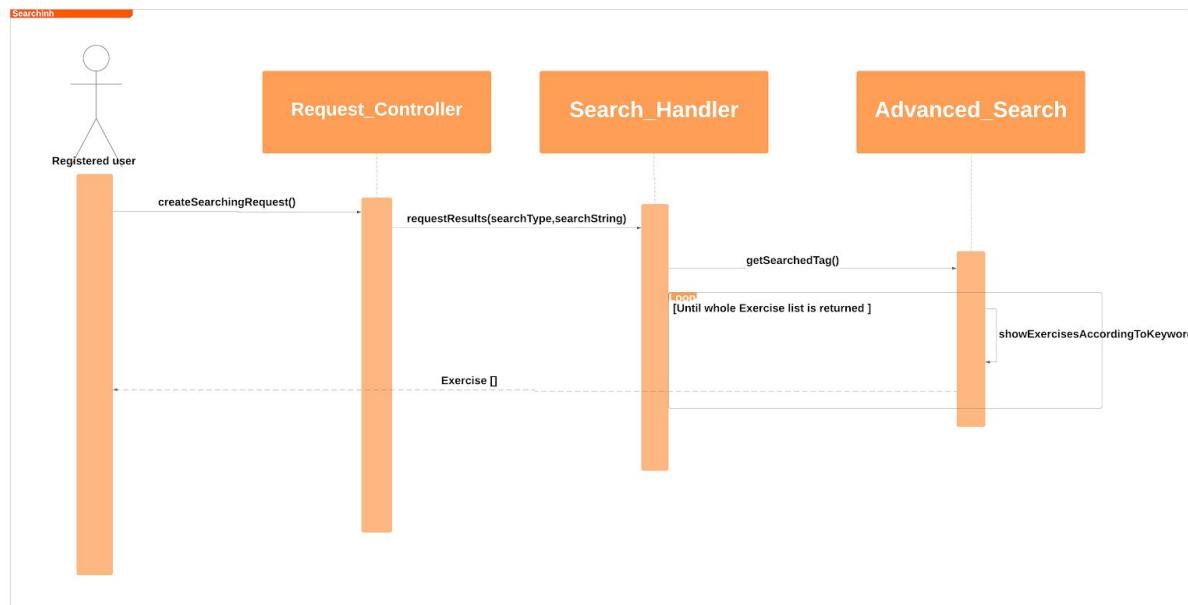
Sequence Diagram-Chat



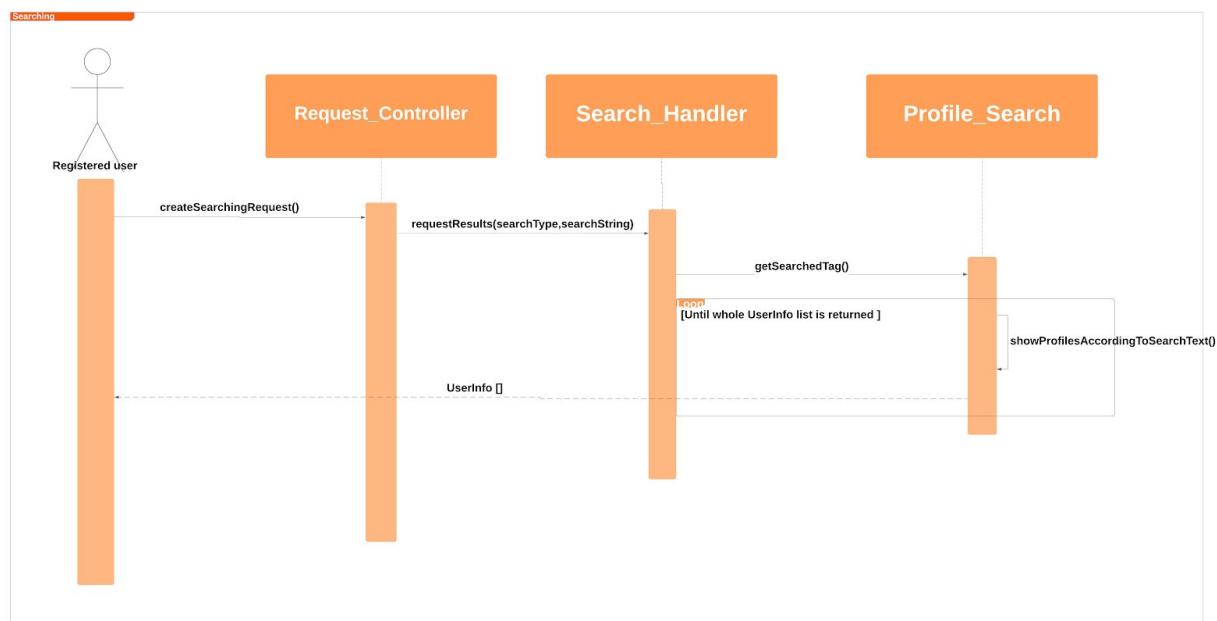
Sequence Diagram-Semantic Search



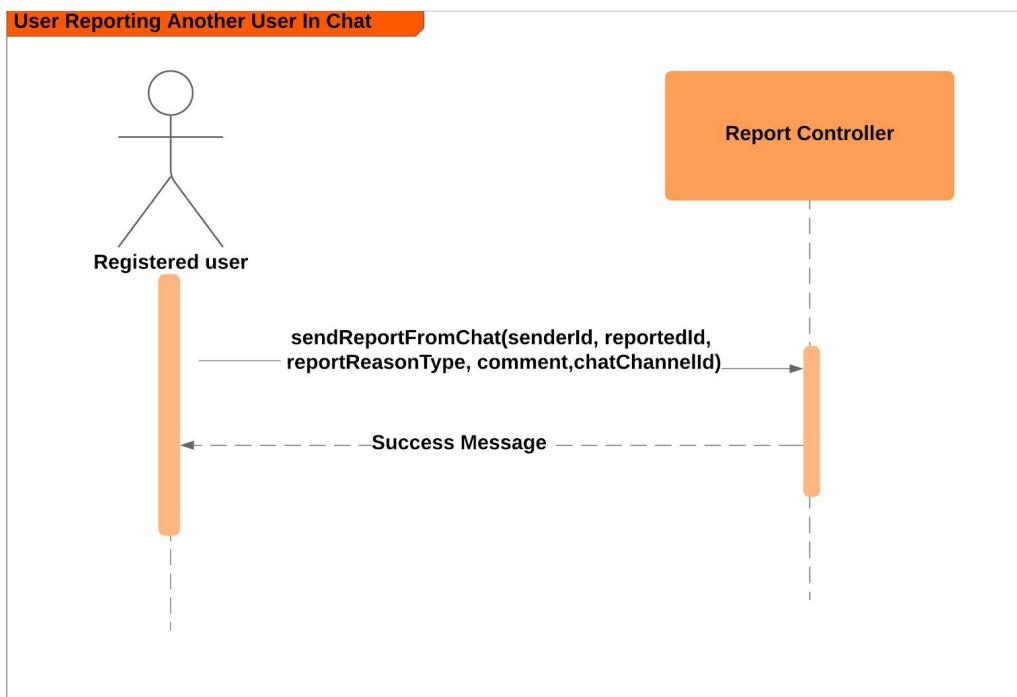
Sequence Diagram-Advanced Search



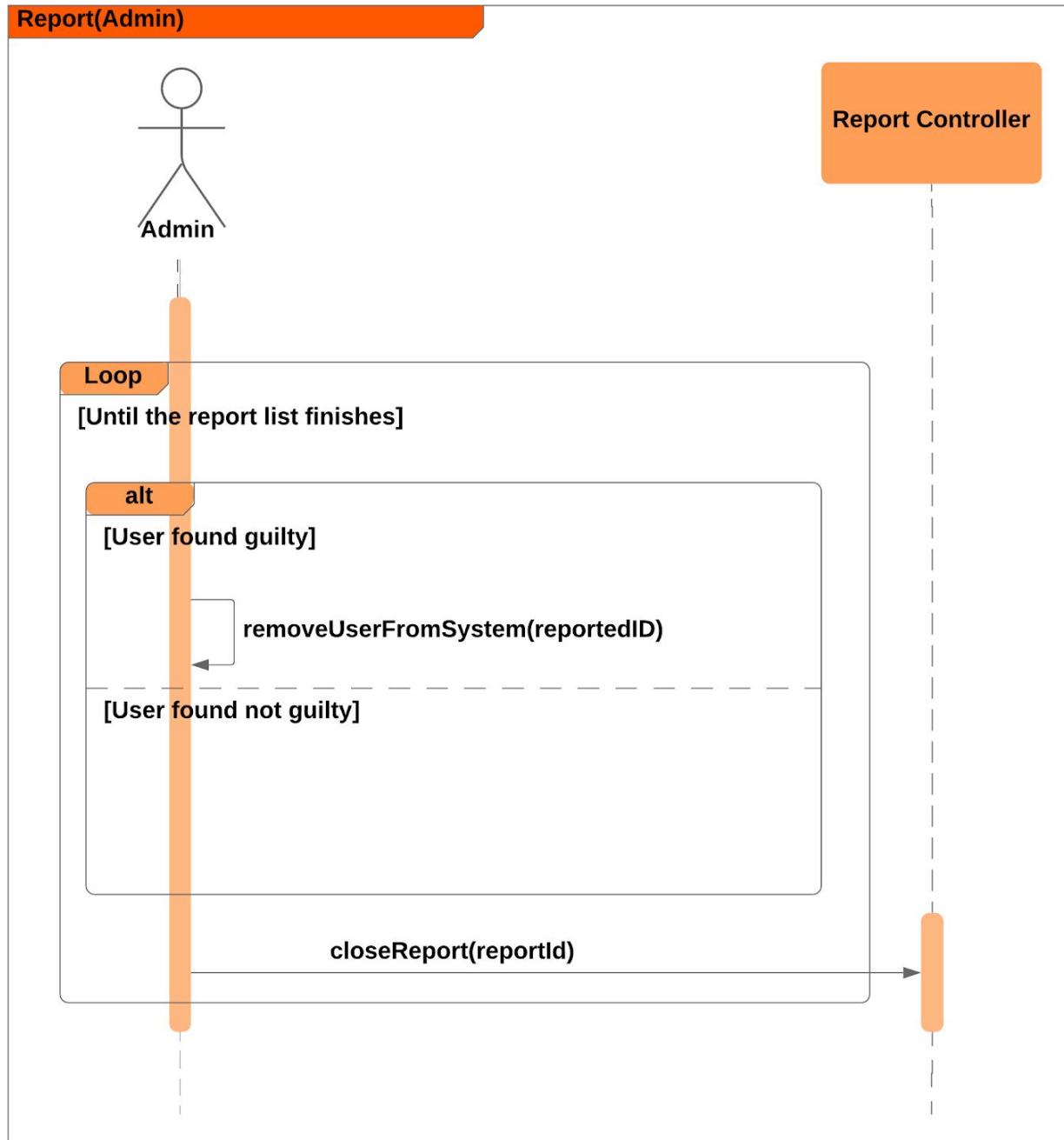
Sequence Diagram-Profile Search



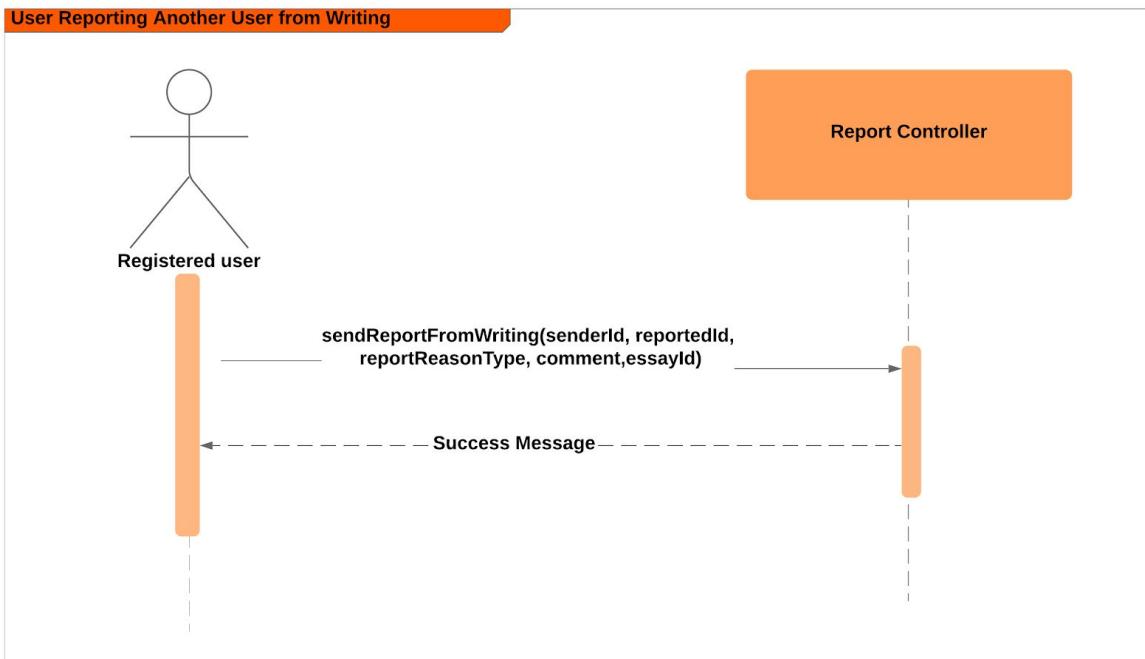
Sequence Diagram - Reporting



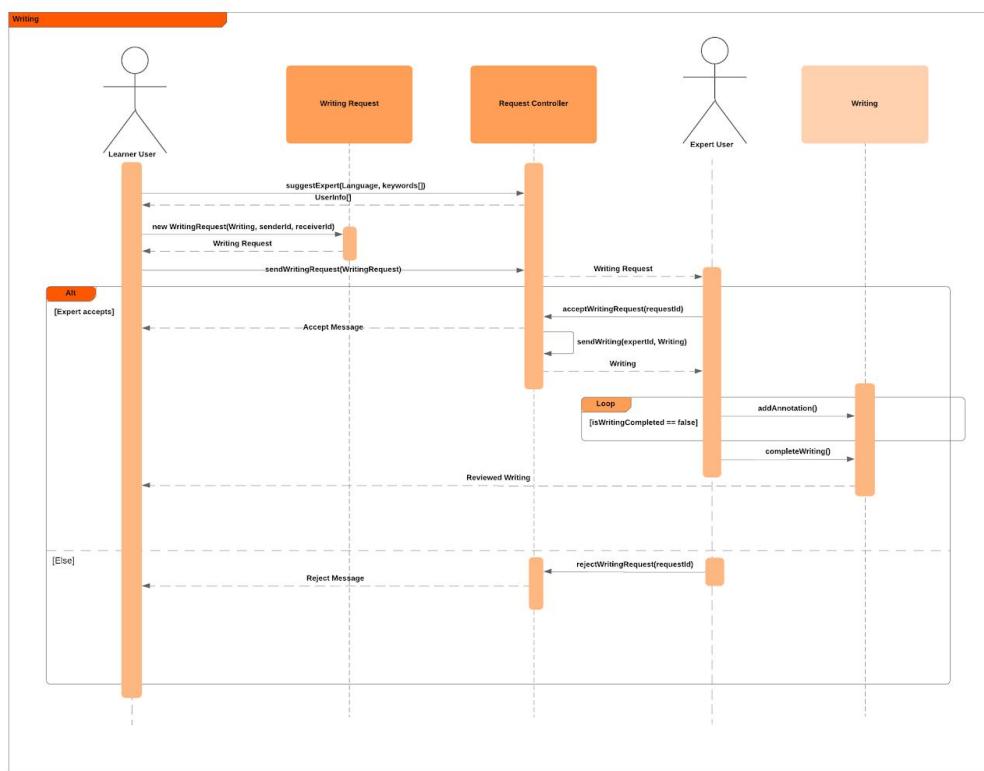
Sequence Diagram- Report(Admin)



Sequence Diagram - Reporting from Writing Channel



Sequence Diagram-Writing



8. User Manual

8.1. Web

Login and Signup

When you enter our application, this page will appear. You will be redirected to login or signup page when you click them.



Welcome!

this is **bonibon**
the most colorful language learning platform

If you are a registered user, you can login by entering your username or email and password from login page.

A screenshot of a login form. At the top is a blue circular profile icon with a white person symbol. To its right is the text 'Log in'. Below this is a horizontal input field with the placeholder 'Enter Your Username or Email *'. Underneath is another input field for 'Password *'. At the bottom of the form is a dark blue 'LOG IN' button. Below the button is a grey 'DON'T HAVE AN ACCOUNT? SIGN-UP NOW' link.

If you did not create an account before, you can do so by going to the signup page. And filling the form provided there.



Welcome! You can sign up here easily.

Name *	Surname *
Email Address *	
User Name *	
Password *	
Native Language	
english	

SIGN UP

After signup you will have to select a language and redirected to “/prof-test/(language)” to take its proficiency exam in order to start your learning. This is the page you will see after signup:

Select a language first.



Learn Turkish

TURKISH



Learn English

ENGLISH



Learn German

GERMAN

After login you are redirected to home page as a logged in user. Because after signup you attended a language, you are not redirected to proficiency exam again. So in navigation bar, you can see “Logout”, “My Profile” and “Search” buttons. My profile will have an icon created from your initials provided in your username. Also you can see a vertical navigation that will help you get to functionalities you desire.

Welcome!

this is 
the most colorful language learning platform

Profile Page

By clicking "My Profile" from above navigation or vertical one, you are redirected to url /profile/(your username) and will see the profile page of your account.

In the profile page basic information about the user is shown. Overall rating is calculated by the given ratings from other users. Rating is possible when an essay is accepted by either of the users.

Here you can view your progress and statistics about your learning by clicking the language you've attended. You can not click the languages you have not attended. This section can be only seen by you. Other users can not see someone else's statistics.

Below statistics, you can see the ratings other users did to you.

SE

selmos

selma elmas

Native Language: turkish

Overall rating:
 out of 1 ratings.

You can view the statistics of your learning progress of the languages you're learning.

ENGLISH TURKISH GERMAN

General Grammar Vocabulary Reading Listening

You are A1 level.

Progress so far: 7.14%

Progress in current level: 9.09% out of 11 tests.

Average correct answer rate: 0%

selmos's ratings and comments:

CH  chidy you were great again

Solving Exercise

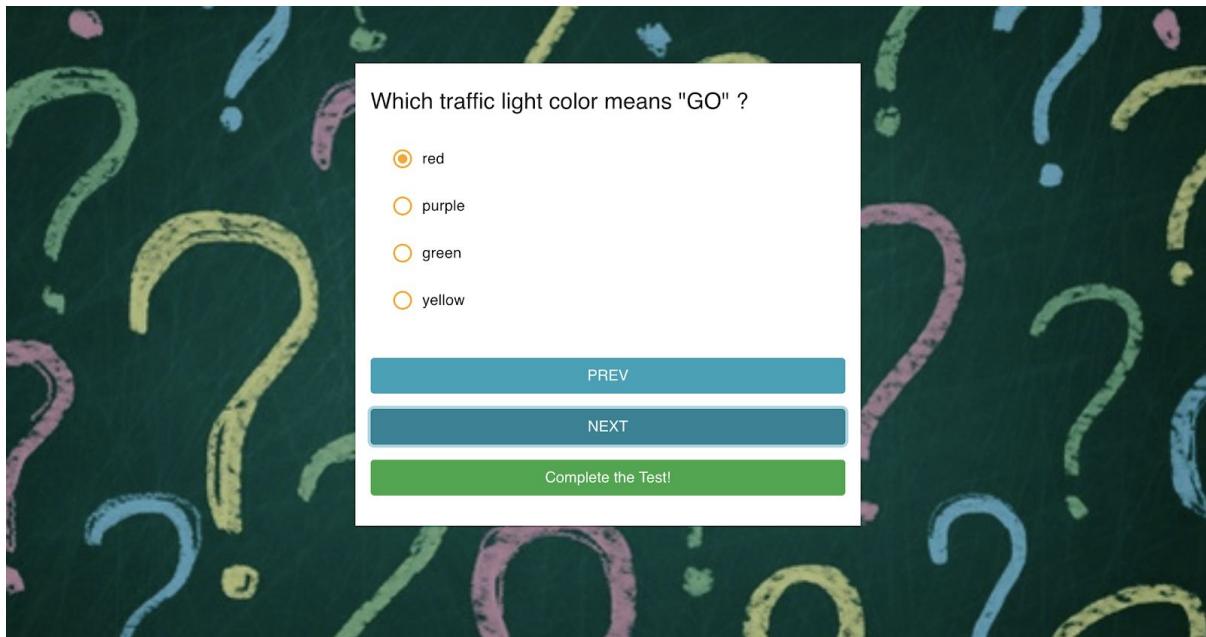
You will click “Exercises” in vertical navigation in order to solve exercise. In this page you will select the language you want to complete exercise of. If you did not take its proficiency yet, a button to take the proficiency exam will be shown. If the language you chose is in your attended languages, all exercises that are suitable for you to solve will be listed. The exercises suitable for you are those that are not yet solved by you and that are in your current level. You can filter exercises by their type or you can write some words like “car” to filter exercises by subjects.

Select the language you want to complete exercise of.

The screenshot shows a user interface for selecting a language and viewing exercises. At the top, there are three buttons: ENGLISH (highlighted), TURKISH, and GERMAN. Below them is a green button labeled "LEVEL UP!". A search bar contains the placeholder "Type" and has a dropdown menu with the word "vocabulary". To the right of the search bar is a "Filter by subject:" button. Three exercise items are listed below:

- 1 : vocabulary exercise**
Tags: beginner,
Keywords: beginner,
Solve exercise
- 2 : vocabulary exercise**
Tags: plant, plants,
Keywords: tree, trees, flower, flowers,
Solve exercise
- 3 : vocabulary exercise**
Tags: vehicles, vehicle, traffic,
Keywords: car, traffic light, traffic, pedestrian,
red, yellow, green, underground, subway,
Solve exercise

If you want to solve a particular exercise, you will click “Solve exercise” and will be redirected to the exercise page. Exercises are shown question by question and you can go to previous or next question as you desire. Note that in listening exercises, you should select what you hear in the question. After you think you are done with the exercise, click “Complete the Test!” and your answers will be highlighted as green or red, according to their correctness. If you want, you can then click the yellow button to see your result. Number of correct and false answers will be shown as well as your level.



Sending & Receiving Essay

You need to upload writing before you send it. From vertical navigation, select “Write an Essay” and you will see this page. You can upload an image or text file or you can write an essay from scratch by selecting that button. You will need to specify your writing’s language and then you will be recommended some users in order for you to choose a reviewer of your essay. When you have selected a user and send your writing, that user will receive your writing in their review requests part of their essays(/writing-list) with status pending.

Upload Your Writing Here!

Dosya Seç | Dosya seçilmedi

Or type your text...

No reviewer selected, you can select later or now..

Language: none ▾

MY ESSAYS	REVIEW REQUESTS
Reviewer: olcaysahan	
Status: pending	
See Essay	
Reviewer: chidy	
Status: completed	
See Essay	

Author:[selmos](#)
 Reviewer:[chidy](#)
 Status: completed
 chidy
 loves listening
 loves to listen might be better

hi 1 month ago
 hello 1 month ago

thank you 1 week ago

Type here...

Dear Yoko Let me tell you about my family. I live with my mum, my dad and my big sister. We live in California. My mum's name is Carmen. She's Mexican and she speaks English and Spanish. She's a Spanish teacher. She's short and slim, she's got long, brown hair and brown eyes. My dad's name is David. He's American. He's tall and a little fat! He's got short brown hair and blue eyes. He works in a bank. My sister Shania is 14 and she loves listening to music. She listens to music all the time! She's got long brown hair and green eyes, like me. I've got long hair too. We've got a pet dog, Brandy. He's black and white and very friendly. Write soon and tell me about your family.
 Love Kelly

After you sent your essay you will be able to annotate it. Just select some part of the text or some part of the image to select where your annotation will be. Then you will type your annotation and add it. You can see what does the annotated part is about by hovering on it. You can chat with your reviewer to discuss some changes from the left part of the page. After your reviewer accepts your essay status will be accepted. If the reviewing is finished, either of you can select the essay status to be completed.

Recommend Expert

This functionality is for chat and selecting a reviewer for writing. But you can also get recommended experts always by selecting "Recommend Expert" from navigation. You will select a language and users

listed according to their native language being the language you selected and their ratings. Some new registered users are also added to the list to help them involve in the application.

Recommendations

English

[Get Recommendations](#)

• Name: chidi

Surname: anagonye

Rating: 5

[Chat With chidi](#)

[Send Essay Reviewing Request to chidi](#)

[See Profile of chidi](#)

• Name: Abdullah Enes

Surname: ÖNCÜ

Rating: 5

[Chat With Abdullah Enes](#)

Chat

You can send a chat to anyone. To see your history of chatting select “Chats” from navigation. You can click on a conversation to see its messages and to write a new message. You can create a new chat by clicking + button. Then you can get recommendations and select the user you want to chat with. Also you can be redirected to have a chat with user from their profile page or search results.

The image consists of two side-by-side screenshots of a mobile-style messaging application.
The left screenshot shows a list of recent conversations. Each conversation is represented by a card with the recipient's initials (TO, CH, OL) and name at the top, followed by a message from 'You' and a timestamp ('1 week ago').
The right screenshot shows a detailed view of a conversation with 'tomhanks'. At the top, it says 'TO tomhanks'. Below that is a message from 'You' that reads 'Hi!!! Are you real Tom Hanks??' with the timestamp '1 week ago'. At the bottom is a large text input field with the placeholder 'Type here...' and a green 'Send' button.

Suggesting New Exercises

From navigation select “Contribute” to suggest a new exercise. You need to give specifics of the exercise and then you will see the corresponding outline of a question. You can add as many questions as you want. You will need to notify the correct option for this question by selecting the square. And after you filled all the required fields you will click “Finish and Suggest This Exercise”.

The screenshot shows a web-based form for creating a new exercise. At the top, there are three dropdown menus: 'Type: vocabulary', 'Language: english', and 'Level: A1'. To the right of these is a green button labeled 'Finish and Suggest This Exercise'. Below this, the form is divided into sections:

- Question 1**: Contains a 'Question Text' input field and a 'Delete Question' button.
- Options:** Two rows, each with a checkbox, a text input field, and a red 'delete' button.
- + Option**: A button to add more options.
- + Question**: A button to add more questions.
- Keywords**: An input field for comma-separated keywords.
- Tags**: An input field for comma-separated tags.

Search

You can search users or exercises from the search bar at the top navigation. When you type something and hit “enter” or click the search button you will be redirected to search page. Then the input you entered will be shown and you will need to specify if you’re looking for a user or an exercise. If you choose “USER” you will be able to filter results by choosing a language(native language of the searched user). If you don’t choose a language resulted users can have any native language. Then results will be shown like this:

The screenshot shows the search results for the user 'uskudarli'. The search bar at the top contains 'uskudarli' and a green 'Search' button. Below the search bar, there are two tabs: 'USER' (selected) and 'EXERCISE'. A 'Language' dropdown menu is set to 'CHOOSE'. The search results are displayed below:

- US** 1: user: uskudarli
Native language: english
- Action buttons: 'Go to profile' (green), 'Chat With' (blue), and 'Send Essay Reviewing Request' (yellow).

If you choose “EXERCISE”, you will be able to filter results by choosing a language, a type and a level. You are required to select a language and it is “english” by default. However you can specify or not a type and a level. Note that exercise search is semantic, so you can search for “vehicle” and get results for “car”. The results will be listed as follows:

Select what you want to search

USER
EXERCISE

Language	Type	Level
english	CHOOSE	CHOOSE

1 : vocabulary exercise
 Tags: vehicles, cars,
 Keywords: car, vehicle, automobile, motorcycle, bicycle, train, wagon,

2 : grammar exercise
 Tags: vehicle,
 Keywords: traffic, colors,

Rating & Commenting Users

If you have accepted someone’s essay or they have accepted your essay, you can rate them on their profile. The rating functionality will not be shown if you are not allowed to rate someone. Then you can give a rating from 1 to 5 and write a comment if you want and click “rate” to send your rating. Your rating will be shown in that user’s profile.

ME

meltem

meltem meltem

Native Language: turkish

Overall rating:

★
★
★
★
★
out of 0

ratings.

meltem's ratings and comments:

No one rated yet :(

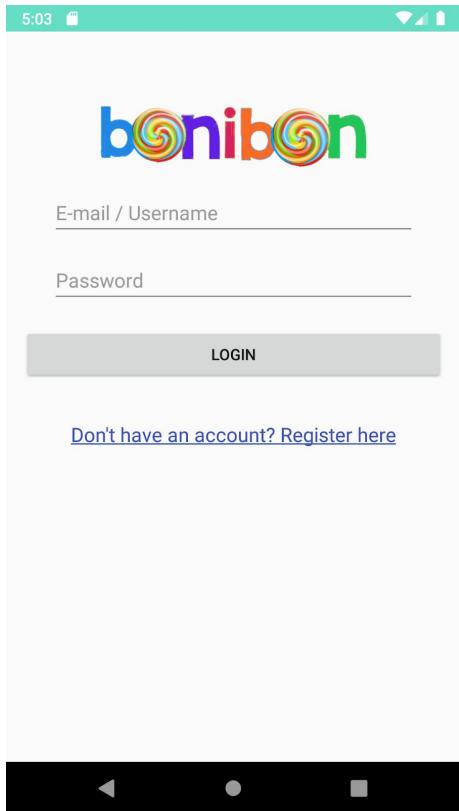
You can rate someone when you sent an essay for review or reviewed someone's essay and once.

Rate this user:

★
★
★
★
★

8.2 Android

Login Screen



The first time you start the app, the login screen will meet you. Using the login screen, you can enter your credentials if you already are registered to the platform. If you have not registered to the platform before, follow the "Register here" link to the bottom of the screen.

Registration Screen



SIGN UP

Name _____

Surname _____

Email _____

Username _____

Password _____

Native Language

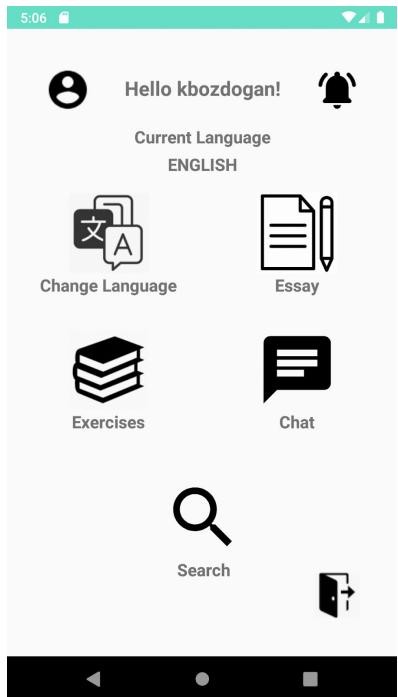
- English
- Turkish
- German

CREATE MY ACCOUNT



If you have not registered to the platform before, you can use the registration screen to register to the platform. Simply fill the form and click on the button to the bottom of the screen.

Main Screen



Once you log in to the platform, you will be met by the main screen. Using the main screen, you can access various parts of the platform.

Taking Exercises

This image shows an exercise screen. At the top, it says "1 / 3". The question is: "Which one is the correct typing of the color of the traffic light which means \"STOP\" ?" Below the question are four blue rectangular buttons with white text: "GINGER", "RED", "READ", and "RODE". At the bottom are three circular navigation buttons: a left arrow, a central dot, and a right arrow. A "SUBMIT" button is located between the left and right arrows.

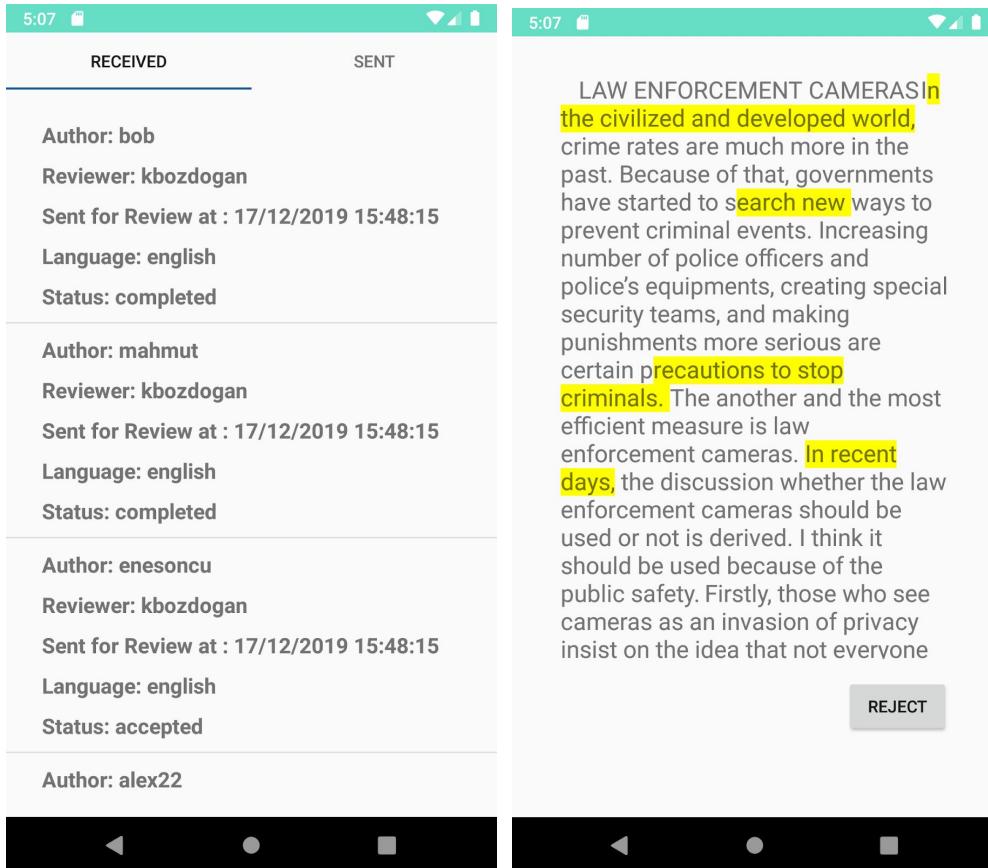
Clicking on the "Exercises" button on the main screen will redirect you to a list of options where you can choose the type of exercise you want to take. Choosing an exercise type will bring an exercise you have not solved. Answer all of the questions and click the "Submit" button to the bottom of the screen. You will be shown the number of correct and incorrect answers. You can also see the correct answers.

Suggesting New Exercises

The screenshot shows a smartphone interface for suggesting a new exercise. At the top, there is a green status bar with the time '6:18' and signal strength indicators. Below it is a white header bar with the text 'New Exercise'. The main form area has two columns. The left column is labeled 'Select Language' and contains radio buttons for 'English' (selected), 'Turkish', 'German', and 'Level' with options 'A1' (selected), 'A2', 'B1', 'B2', 'C1', and 'C2'. The right column is labeled 'Exercise Type' and contains radio buttons for 'Proficiency' (selected), 'Vocabulary', 'Grammar', 'Reading', and 'Listening'. Below these columns are input fields for 'Tags' (containing 'Tags') and 'Keywords' (containing 'Keywords'). At the bottom is a grey 'CONTINUE' button, followed by a black navigation bar with three icons: a left arrow, a central dot, and a right square.

You can suggest exercises. Exercises you suggest are subject to the approval of the platform management. To suggest an exercise, click on the "Exercises" button on the main screen and follow the link "Suggest New Exercise" at the bottom of the list. Specify the language, type and level of the exercise and assign tags and keywords to it. Click on the "Continue" button to the bottom of the screen to write questions for the exercise.

Essay Functionality

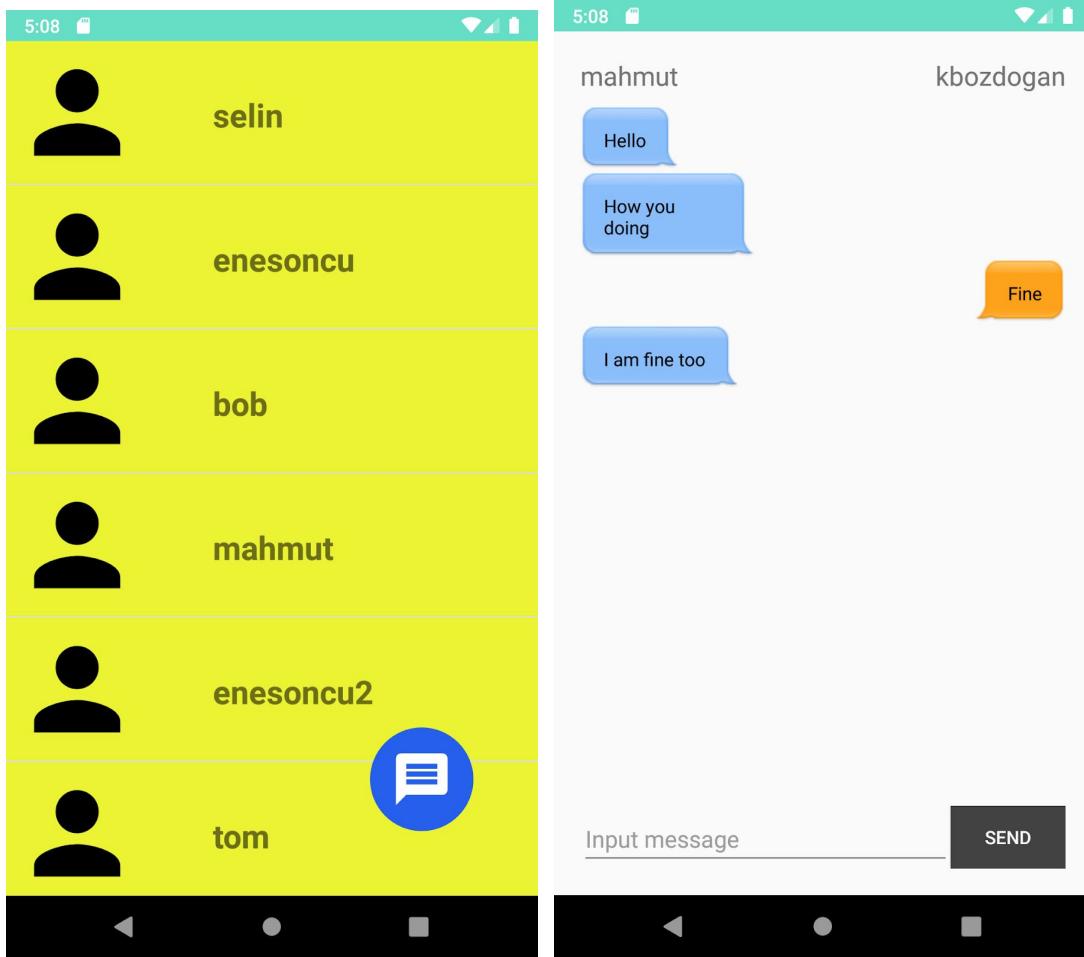


Clicking the "Essay" button on the main screen will redirect you to a list of options where you can choose to write a new essay within the app or upload an existing one. You can also click on the "My Essays" button to view a list of essays that involves you.

After clicking on the "My Essays" button, you will be redirected to a page that lists the essays that have been sent by you, or essays the reviewer of which is you. You can click on any essay to view it, along with any annotations associated with it. Clicking on an annotation will bring a screen that displays the creator of that annotation and the message associated with it. You can also start chatting with the creator of the annotation.

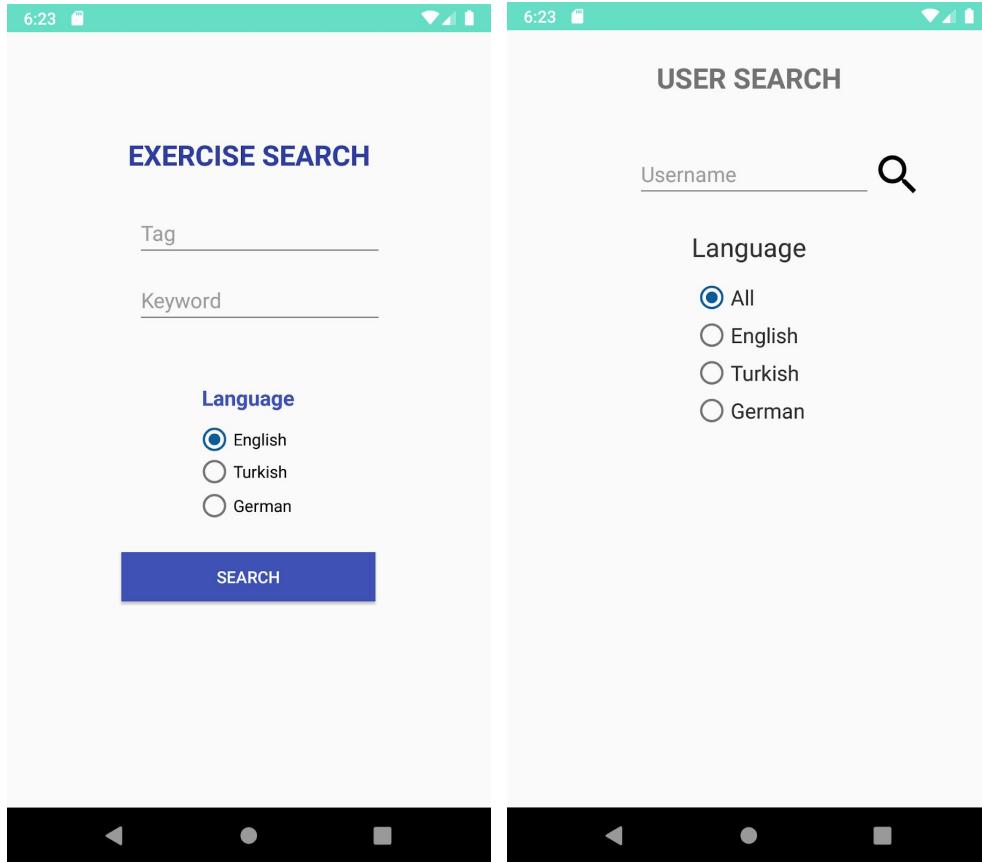
You can also annotate the essay. To annotate a text essay, hold a part of the essay for about a second and select the part you want to annotate. To annotate an image essay, click on the "Annotate" button to the bottom of the page and select the part you want to annotate. Then, click on the "Annotate" button again. You will be asked to enter an annotation comment.

Chat Functionality



Clicking the "Chat" button on the main screen will redirect you to a screen that lists your previous conversations. You can click on a conversation to see its messages and to write a new message. You can click on the button to the bottom right of the screen to choose a user with whom you want to create a conversation.

Search Functionality

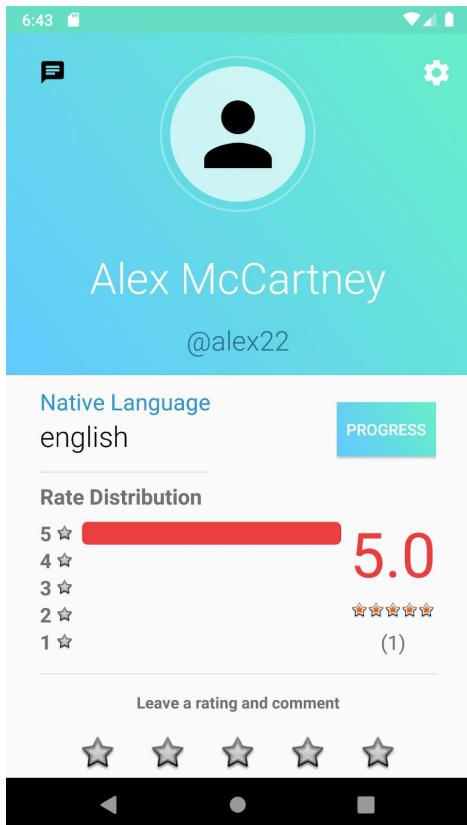


You can search for exercises or users. Click on the "Search" button on the main screen and choose what you want to search for. You can search for exercises by language and tag or keyword. Note that exercise search is semantic, so you can search for "vehicle" and get results for "car". To search for a user, you can type in part of the username.

Profile Page

You can see your profile page by clicking on the user icon to the top left of the main screen. Here you can see comments made about you and your progress among the exercises.

Commenting for Users



You can comment and rate users to whom you have sent an essay which got accepted. Open the essay whose reviewer you want to rate, click the user icon to the top right of the screen to open the reviewer's profile page and choose a rating. A page will appear where you can write a comment about the user.

You can see comments made about you in your profile page.

9. System Manual

Requirements

- * Docker
- * Docker compose

Deployment

1. Clone repo
2. Switch branch to backend
3. Go to related directory
4. Up server with db

```
git clone https://github.com/bounswe/bounswe2019group5.git
```

```
git checkout origin/backend
```

```
cd bounswe2019group5/backend
```

```
docker-compose up -d --build
```

Database Script

```
docker exec backend_db_1 pg_restore -d postgres -v db_dump/bonibon.tar
```

10. Project Plan

{TASKS}	Duration(Days)	Start	Finish	Predecessors	Resource Names
Revision of the project		5 9.27.2019	10.3.2019		Everyone
Review requirements		5 9.27.2019	10.3.2019		Everyone
Review project plan		5 9.27.2019	10.3.2019		Everyone
Review diagrams		5 9.27.2019	10.3.2019		Everyone
[Mobile]					
Login	10	10.5.2019	10.15.2019	52 Hasan Ozturk	
Sign up	10	10.7.2019	10.17.2019	53 Hasan Ozturk, Ali Meric Deser	
Proficiency Exam	10	10.8.2019	10.18.2019	Kartal Kagan Bozdogan, Mahmut Uzunpostalci	
Profile Page	10	10.9.2019	10.19.2019	Hasan Ozturk	
Creating and deploying the app skeleton	10	10.10.2019	10.20.2019	Kartal Kagan Bozdogan, Ali Meric Deser	
Main Menu Page	10	10.11.2019	10.21.2019	Mahmut Uzunpostalci	
Bug fix	Always			Everyone	
~Milestone 1~		10.22.2019		Everyone	
Chat	10	11.3.2019	11.13.2019	67 Hasan Ozturk	
Profile Page Connection to Backend	10	11.4.2019	11.14.2019	59 Hasan Ozturk	
Wrote Exercise Data	10	11.12.2019	11.22.2019	Everyone	
Proficiency Exam	10	10.25.2019	11.4.2019	54 Kartal Kagan Bozdogan	
Comment	10	11.5.2019	11.15.2019	Kartal Kagan Bozdogan	
Exercise	10	11.7.2019	11.17.2019	Kartal Kagan Bozdogan	
Writing Essay	10	11.8.2019	11.18.2019	Kartal Kagan Bozdogan	
Search	10	11.7.2019	11.17.2019	67 Ali Meric Deser, Mahmut Uzunpostalci	
Improved the language selection screen	10	11.8.2019	11.18.2019	Ali Meric Deser	
Worked on Main Menu views	10	11.10.2019	11.20.2019	Ali Meric Deser	
List essays that are related to the user	10	11.12.2019	11.22.2019	67 Mahmut Uzunpostalci	
User exercise suggestion	10	11.13.2019	11.23.2019	67 Mahmut Uzunpostalci	
Bug Fix	Always			Everyone	
~Milestone 2~		11.26.2019		Everyone	
[Frontend]					
Guest	10	10.5.2019	10.15.2019	Meltem Suicmez	
Login	10	10.7.2019	10.17.2019	52 Meltem Suicmez, Abdullah Enes Oncu	
Visual Design	10	10.8.2019	10.18.2019	Meltem Suicmez, Selamettin Dirik	
Registration	10	10.9.2019	10.19.2019	53 Selamettin Dirik	
Proficiency Exam	10	10.10.2019	10.20.2019	54 Selamettin Dirik, Abdullah Enes Oncu	
Building the architecture of the Web App	10	10.11.2019	10.21.2019	Abdullah Enes Oncu	
Bug fix	Always			Everyone	
~Milestone 1~		10.22.2019		Everyone	
Profile Page	10	11.3.2019	11.13.2019	59 Meltem Suicmez	
Exercise Page	10	11.4.2019	11.14.2019	Meltem Suicmez	
Grammar Test Page	10	11.5.2019	11.15.2019	Selamettin Dirik	
Vocabulary Test Page	10	10.25.2019	11.4.2019	Selamettin Dirik	
Listening Test Page	10	11.5.2019	11.15.2019	Selamettin Dirik	
Chat Page	10	11.7.2019	11.17.2019	67 Abdullah Enes Oncu	
Image and Text Annotation	10	11.8.2019	11.18.2019	67 Abdullah Enes Oncu	
File Upload Page	10	11.7.2019	11.17.2019	Abdullah Enes Oncu	
User Recommendation Page	10	11.8.2019	11.18.2019	67 Mert Bila	
Writing List Page	10	11.10.2019	11.20.2019	67 Mert Bila	
Wrote Exercise Data	10	11.12.2019	11.22.2019	Everyone	
Bug fix	Always			Everyone	
~Milestone 2~		11.26.2019		Everyone	

[Backend]			
Login	10 10.5.2019	10.15.2019	Furkan Kadioglu
Register	10 10.7.2019	10.17.2019	Furkan Kadioglu
Proficiency Exam	10 10.8.2019	10.18.2019	Furkan Kadioglu, Mert Bila
API Documentation	10 10.9.2019	10.19.2019	Furkan Kadioglu
Structure Design	10 10.9.2019	10.19.2019	Furkan Kadioglu
User model	10 10.9.2019	10.19.2019	Nevzat Ersoy
Comment model	10 10.9.2019	10.19.2019	Nevzat Ersoy
Profile Page	10 10.10.2019	10.20.2019	Nevzat Ersoy
Dockerizing Backend	10 10.10.2019	10.20.2019	Mert Bila
Integrating Travis	10 10.10.2019	10.20.2019	Mert Bila
Deployment on AWS EC2 instance	10 10.11.2019	10.21.2019	Mert Bila
Exam Model	10 10.11.2019	10.21.2019	Mert Bila
Question Model	10 10.11.2019	10.21.2019	Mert Bila
Bug fix	Always		Everyone
~Milestone 1~		10.22.2019	Everyone
Backend completion		20 11.3.2019	Furkan Kadioglu
Bug report fixing	Always	11.4.2019	Furkan Kadioglu
Test Cases		10 11.5.2019	Nevzat Ersoy, Mert Bila
Second Deployment		10 10.25.2019	Mert Bila
Bug fix from tests		20 11.5.2019	Nevzat Ersoy
Wrote Exercise Data		10 11.12.2019	Nevzat Ersoy
~Milestone 2~		11.26.2019	Everyone