Milestone 1

This is the first milestone report for Self-Development Network Project of BOUN SWE 2021 Group 11.

Submission Date: 2021-05-9

1-Summary

Our project is a self organized development platform. In this platform, a person or a group of people are able to describe their goals, track their process, and add resources and comments which can be helpful for other users. In other words, this will be a community driven platform. After users describe their goals, the platform provides recommendations of a wide range of resources to be followed. The goal of the project is to implement such a platform for both web and Android.

1.1-Project Status

Initially, we got used to GitHub environment. We created our Wiki pages and some issue labels. Then, we prepared our communication plan which is a key factor since we are in a pandemic era which causes that our only communication way is the online communication platforms we decided. In addition, we will follow this plan for a long time and there won't be any change. In this period, after trying various communication platforms, we decided on using MS Teams for meetings, Slack for instant messaging, and Whatsapp for emergency messaging.

In the second place, we determined the requirements under the titles of functional and nonfunctional. We also added a glossary part to increase the understandability of the requirements. There was a customer meeting about this requirements phase. After receiving feedback, we updated the requirements and continued to the next phase.

We created user scenarios and mockups of these scenarios for both web and mobile app versions. This was the first visual part providing us a different point of view about the project. The first version of user scenarios & mockups included 3 instances.

Afterwards, the software design part of the project came. Before starting the design, we studied the concepts and analyzed examples carefully. Later, we created the first states of our use case and class diagrams. Then, each member of our group prepared a part of the sequence diagram. However, after meeting the customer, we realized that some functionality of the project was missing. Specifically, we decided that "Resource" structure must be improved.

Actually, we had some difficulties deciding on "Resource" structure between us before. In this state of the project, we are proud that all of us shared our point of view and arrived at the decision which we designed our class structure accordingly. Right now our "Resource" class consists of a goal system that allows users to have scheduled goals that can be used to track 30-day challenges as an example, path goals that consist of several milestones, collaborative goals that users can choose different paths to complete from. or they can all work on the same path/single goal.

After this improvement, we updated the requirements, our current user scenarios & mockups and added 3 more(total 6), use case and class diagram with long hours of discussion and work time since we did not want to get off the first simple-designed version. At the end, this took approximately 2 weeks.

At the end, we prepared our project plan and RAM. In the last customer meeting, we presented all of our work till this day and there was not a problem.

1.2-Future Projection

From now on, our plan is to stay true to today's plan. We don't want to overcomplicate things. We have many ideas and deciding what is achievable and what is too much for this course is very important for us. Other than this, we are going to do research about backend/ frontend tools we can use while bringing our project into life. The requirements of backend and frontend as well as mobile development is our first issue.

2-List of Deliverables

Hyperlinks provided are external and browse our Github wiki pages. Refer to the relevant section specified as "[Sec. x.y.z]" to locate the deliverables in this document.

- [Sec. 6.1] Communication Plan: *Stable, Rev. 2*
- [Sec. 6.2] Requirements: *Stable, Rev. 9*
- [Sec. 6.3] Scenarios and Mockups
  - [Sec. 6.3.1] Scenario 1: *Stable, Rev. 19*
  - [Sec. 6.3.2] Scenario 2: *Stable, Rev. 8*
  - [Sec. 6.3.3] Scenario 3: *Stable, Rev. 7*
  - [Sec. 6.3.4] Scenario 4: *Stable, Rev. 8*
  - [Sec. 6.3.5] Scenario 5: *Stable, Rev. 1*
  - [Sec. 6.4.6] Scenario 6: *Stable, Rev. 1*
- [Sec. 6.4] Software Design Documents in UML
  - [Sec. 6.4.1] Class Diagram: *Stable, Rev. 3*
  - [Sec. 6.4.2] Use Case Diagram: *Stable, Rev. 2*
  - [Sec. 6.4.3] Sequence Diagrams: *Stable, Rev. 13*
- [Sec. 6.5] Project Plannning Documents
  - [Sec. 6.5.1] Project Plan: *Under Development, Rev. 6*
  - [Sec. 6.5.2] Responsibility Assignment Matrix (RAM): *Under Development, Rev. 1*

3-Evaluation of Deliverables

3.1-Evaluation of the Communication Plan

Our communication plan proved itself effective. We didn't have any issues about reaching other teammates or missing out about news. It's a good sign that we're working together well and our project plan won't have any problems regarding communication.

3.2-Evaluation of Requirements

Our requirements page can express our needs so we don't have any plans to change it. If we have a new idea in the future requiring some changes in that document, we'll be able to do it easily because we spend a long time on it making it very understandable.

3.3-Evaluation of User Scenarios and Mockups

To be able to express the main functionalities of our platform clearly and provide an effective visualization, we really worked hard on creating user scenarios and mockups. For this purpose, even though we started with 3 instances of scenarios, then, we increased the total number from 3 to the 6 and tried to include most of the cases.

3.4-Evaluation of Design Diagrams

We thought of the real-like part of our project in this part. Therefore, we always tried to keep the diagrams as simple as possible without missing any functional requirement. As a team, we created the use case diagram and class diagram together with long hours of discussion ending with consensus. Then, each member prepared a part of the sequence diagrams.

3.5-Evaluation of the Project Plan

All the tasks and activities done so far are listed in our project plan. It is really helpful to view our progress. In addition to our past, our project plan also includes an estimation of future tasks.

3.6-Evaluation of the Responsibility Assignment Matrix (RAM)

Responsibility Assignment Matrix provided us another perspective to see the tasks and activities done till today.

4-Evaluation of Tools and Processes

4.1-Evaluation of Github

Used as the project version control platform. Wiki, issues, documentation of deliverables, to sum up, whole progress of the project.

4.2-Evaluation of Slack

Used for text messaging. Channel option was a reason for preference.

4.3-Evaluation of MS Teams

Used for online meetings. Provided a wide range of tools and no limitations about time.

4.4-Evaluation of Diagrams.net

Used for creating mockups. Free and provided to work simultaneously.

4.5-Evaluation of Lucidchart

Used for creating diagrams. Recommended, free for students and provided to work simultaneously.

4.6-Evaluation of ProjectLibre

Used for creating the project plan. Free and proper for creating Gantt Charts.

5-Summary of Work Done

Member	Effort
Alper Canberk Balcı	Firstly, I've created my own wiki page on project repository. Then, we prepared an easy to use meeting notes templates to document our meetings with Hatice Şule Erkul. I've made research about repos of other projects and added one that I liked to our favorite GitHub repos page. Also, I added two informative video links to Git Research page. Then, in the next week, I contributed to the preparation of requirements which are done as a team, which we had some questions about. Then, I prepared questions about requirements and created a wiki page for it. Then, we edited it as a team. I attended all the problem sessions and all the customer meetings. Next week, we created mock ups and scenarios. Firstly we prepared 3 scenarios and 3 mock ups for them. I created the Scenario 3 wiki page according to the scenario and mock-ups we prepared in the meeting. Next week I researched about the UML diagrams. Then, I contributed to the Use Case Diagram and Class Diagram which are done by teamwork. Then we shared the sequence diagrams one for each team member and I undertook the "Edit Profile" Sequence Diagram. Next week we were needed to make additions to our scenarios and to make changes in the requirements because of the changes in the Class Diagram and Use Case Diagram, which are results of the changes desired by the customer. So, Emin, Şule and I undertook the issue and we edited Requirements, and decide on the new scenarios and made some discussion about mechanism of the rescources so that we can help change the Class Diagram. So, We made 3 new scenarios and I created

	the Scenario 4, prepared its mock-ups and prepared its wiki page. Then, I contributed to the new changes in the Class Diagram in the meeting. Lastly, I contributed a little in preparing the Milestone 1 document.
Bekir Tatar	First of all, I created my personal wiki page on Github repository. Next, I made a research about popular sofware related Github repositories. I added my personal favorite one to our research page. And then, I documented the readme page of our project. After that, I led the preparation of first version of project reqiurements with Selman. I attended all customer meetings. Next week, I contributed to scenarios and mockups in our regular meetings. I made research about UML diagrams and I contributed to the documentation of use case and class diagrams. Then, I created search sequence diagram of our project. Finally, I made research about Project Plan and RAM and created the Project Plan of our project.
Eren Altunoğlu	At first, I created personal wiki page on project repository. Next, I have researched Github repositories in order to add my personal favourite repository to research page. I have done Scenario 1 web mockup and updated its wiki page. I have attended all customer meetings. I studied on UML to get a better understanding. And, researched about UML drawing tools to find the most useful one. I made contributions on drawing Use Case and Class Diagram. I drew the follow/unfollow topic sequence diagram.
Fikri Cem Yılmaz	First thing first, I've setup my own page on wiki on project repository. After that, we've created Slack workspace with Emin. Like other team members, I've made research about other repos and add info about my favorite one to related wiki page. I' ve attended all meetings with customer. I've done Scenario 2 wiki page and mobile mockup (I had the lead but this was in meeting time so there was a group effort), Scenario 3 mobile mockup(This is my own effort.). Next week, I've made research about UML diagrams and created main body of class diagram (Further development had done by team effort.). In that meeting, We've also created Use Case Diagram with team and decided everyone should prepare Sequence Diagram until next meeting. So, I've created post comment Sequence Diagram. Finally, I've made research about Project Plan and RAM and implemented RAM and contributed to Milestone Report. You can see RAM to more compact vision.
Hatice Şule Erkul	As a starter I setup my own wiki page on project repository. Then I made a research about other projects' repositories on Github. I added the one I liked to our Research page. I also edited and contributed to Git Research page. When we were deciding on the requirements, I contributed in it. I attended the meetings with the customer and according to our changes in project, I created Scenario 5, and prepared a mockup for it. I contributed to use case and class diagrams which are led by other members of our team. I also reviewed the change made on those diagrams. I prepared the Edit Resource sequence diagram. Lastly, I contributed in preparing the Milestone 1 document.
Mehmet Yasin Şeremet	Firstly, I created my own personal wiki page on GitHub. Then, I researched about the GitHub repositories of other projects. I added one of them to our favorite GitHub repos page. I also edited and contributed to Git Research page after researching about Git and general project version control systems. In the next week, I contributed to the preparation of requirements which are done as a team. Afterwards, I created the user scenario template. We distributed the tasks about the scenarios & mockups. As a result, I created scenario 1 and wiki page of it. I attended meetings with customer related to the check the current version of our project. In the next phase, I contributed to use case and class diagrams which are led by other members of our team. Again, as a result of distribution of tasks between members, I created Upvote/Downvote sequence diagram. Lastly, I prepared the executive summary, evaluations of deliverables, tools and processes parts of the Milestone Report 1 and reviewed tasks done till today.
Muhammed Emin Deniz	First of all, I have met with the team. I have searched free doodle alternatives to decide meeting time. I can not find any free program for nine people. I have created a google spreadsheet and functions to collect available hours and see the best time for us. After that, Fikri Cem and I set up our slack channel for communication. I researched previous year's

	repositories and interesting repositories on Github. Each week, I try to write down a weekly report. At the group meeting, I helped to decide requirements, prepare mockups and scenarios, create class diagrams. I researched mockup tools such as excalidraw, Figma. I have created an `edit comment sequence diagram` and a new scenario and mockup for `adding a new member to group feature at our app.`
Selman Berk Özkurt	I did all of the basic duties as specified in our homeworks and communication policies. Within the development work, I took active part in architecture development. I wrote most of the requirements and the whole glossary. I created the initial mockup templates for both mobile and web interfaces, before being involved in designing many mockup cases. I made the first additions to the use case diagram and participated with the rest of the team designing use case and class diagrams. We shared the sequence diagrams and I took the sign-up sequence diagram. Later I made the architectural updates I had devised in UML design documents, maintaining them. My final contribution was being the editor of this milestone report. As part of project organization, I handled the meeting minutes for most meetings. I also created our issue labels, sometimes correcting their use.

6-Deliverables

This section includes a corpus of the deliverables intended for this milestone report. All the deliverables listed here can be accessed on Github through the links supplied in Section 2. Some deliverables also have other links to the web services used in their creation.

6.1-Communications Plan

This table shows our communication plan. We have regular meeting twice a week and we do them on MS Teams. For instant messaging we use Slack. Most of the time we don't use Whatsapp.

Name	Purpose	Platform	Time
Assignment Meetings	After the lecture, distributing the assignments to the members accordingly.	MS Teams	Every Tuesday at 20:00 GMT+3
Review Meetings	Before the lecture, checking out what each of us have done, since the last meeting.	MS Teams	Every Sunday at 14:00 GMT+3
Instant Messaging	Helping each other with simple stuff like how to write a for loop. Also, micro managing without meetings is important.	Slack	Anytime
Emergency Messaging	Emergency communication alternative.	Whatsapp	Anytime
Out of Context Messaging	To disscuss any topic that doesn't concern the project.	Whatsapp	Anytime

6.2-Requirements

Keywords "should", "shall", "should not", "shall not" are used in accordance to RFC 2119.

6.2.1-Project Glossary

Notice: The glossary introduced here applies not only to the requirements section but also to the later design documents.

- **Admin:** Some users who have the privilege of banning other users.
- **Android Application:** Software developed using Android Studio that can be distributed through Play Store. This is an instance of the interfaces in The System.
- **Collective Resource:** Similar to Resource with the additional set called positions, also with additional functionality of creating teams of one User associated with a position and providing Resource functionalities for each of the positions in the team.
- **Dashboard:** A single page in the Interface customized for each user that has a collection of links.
- **Effort:** Data representing a user's accomplishments specific to materials associated with some topics.
- **Infrastructure:** The functional component of The System that is responsible for handling, processing, recording synchronized data and making any programmed operations affecting overall functionality of the system. This is an application stack to be run on one or more computers connected to the global IP network.
- **Interface:** The functional component of The System that deals with representation of the logic and supplying a means of bidirectionally communicating with the infrastructure.
- **Material:** Some documents, applications or web-links associated with some topics users may benefit by studying.
- **Path Resource:** Similar to resource with the additional set called milestones, providing mark functionalities of the Resource for each of milestones separately.
- **Resource:** Container for material providing functionality to follow, mark as in progress, mark as finished and comment threads.
- **Scheduled Resource:** Similar to path resource with each milestone associated with a period measured since the initial mark-in-progress event of the Scheduled resource.
- **The System:** The project in its all functional components including interface and backend.
- **Topic:** Abstract structure used for labelling most data flowing and being recorded in The System
- **User:** Entity accessing The System through its interfaces and the intended utilizer of overall fuctionality of The System. Users are associated with and are represented as *accounts* in The System
- **Web Application:** Instance of the interface that can be run by a generic web browser. This shall be distributed on-demand through IP network using a DNS domain.

6.2.2-Requirements Listing

Notice: Indexing with prefix "Req." refers to the requirement index as used in the Requirements Specification. These are distinct from section indexing used in this document.

Req.1. Functional Requirements

Req.1.1. Accounts

- **Req.1.1.1.** Access to the accounts *shall* be protected by passwords.

- **Req.1.1.2.** The System *shall* provide its users access to it by means of specialized accounts.
- **Req.1.1.3.** The users *shall* be able to create and delete their accounts and be able to gain access if they prove identity in case they forget their password.
- **Req.1.1.4.** Some users *shall* have admin privilege.

Req.1.2. Self-Development

- **Req.1.2.1.** The Infrastructure *shall* reliably record any progress data supplied by the users grouped by materials and topics.
- **Req.1.2.2.** The Interface *should* provide the user with a graphical overview of their past effort.
- **Req.1.2.3.** The System *shall* determine and inform its users about topics they could be potentially interested.
- **Req.1.2.4.** The System *shall* supply its users with recommendation of materials.
- **Req.1.2.5.** The System *should* offer a means of reliably proving realized effort and any accomplishment of a user to any third party authorized by that user.
- **Req.1.2.6.** The users *shall* be able to reliably record and edit some goals they determine as a set of material-deadline pairs.
- **Req.1.2.7.** The users *should* be able to reliably record topics they want to improve on, or break/ develop a habit.
- **Req.1.2.8.** The users *shall* be able to work on their determined goals as a group.

Req.1.3. Social Interaction

- **Req.1.3.1.** The users *should* be able to create custom pages representing their accounts and those pages that ease their access to other functionalities, like a dashboard.
- **Req.1.3.2.** The users *should* be able to share their accomplishments and preferred topics via other applications like social media platforms.
- **Req.1.3.3.** The users *should* be able to share their comments on specific topics.
- **Req.1.3.4.** The users *shall* be able to search for other users.
- **Req.1.3.5.** Admins *shall* be able to ban other users.

Req.1.4. User Experience

- **Req.1.4.1.** The interface *should* give its users notification messages through standard interfaces defined for each interface type.
- **Req.1.4.2.** The users *should* be able to customize the way the notifications are sent.
- **Req.1.4.3.** The users *should* be able to search data assigned to topics using keywords.
- **Req.1.4.4.** The users *should* be able to access other users' profiles.

Req.2. Non-Functional Requirements

Req.2.1. Availability

- **Req.2.1.1.** An Android Application and a Web Application *shall* be implemented as instances of the Interface.

- **Req.2.1.2.** The Interface *shall not* require any user to give text commands for any of its functionalities. It *shall* be possible to give all commands through the interface using a graphical interface.

- **Req.2.1.3.** The System *shall* express topics using semantic representation as defined in Wikidata.

Req.2.2. Performance

- **Req.2.2.1.** The Infrastructure *shall* be able to support at least 100 user actions per second.

- **Req.2.2.2.** The Infrastructure *shall* be able to support at least 10000 accounts.

- **Req.2.2.3.** The Infrastructure *shall* have a response time of less than 1.0 second excluding network delay.

- **Req.2.2.4.** The Infrastructure *shall* have an uptime of at least %99.

Req.2.3. Privacy

- **Req.2.3.1.** The System *shall* be compliant with GDPR.

- **Req.2.3.2.** Users *shall* have authority over visibility by third entities of data related to their accounts.

Req.2.4. Security

- **Req.2.4.1.** Data that shall be reliably recorded in the Infrastructure *should* be recorded using a means of redundancy, such as using RAID.

- **Req.2.4.2.** User account authentication *shall* be made in a cryptographically secure way. This may include salted password hashes or an external authentication application.

6.3-Scenarios and Mockups

Editorial Note: Requirement indexing in scenarios are updated to the convention used in this page. Also, figure number references are removed.

6.3.1-Scenario 1

6.3.1.1-User Persona

- **Photo:**
- **Name:** Mohammad Lee
- **Age:** 42
- **Job:** Businessperson
- **Interest:**
    1. Mohammed tries to improve himself in various programming topics in order to strengthen his communication with the technical team of his company.
    2. At the weekends, he likes to cook for his wife and his little daughter.
    3. He workouts for 30 minutes every morning as starting the day.

6.3.1.2-Preconditions

- Mohammad is already signed up and logged in the android app.
- The app is started in Home page.

6.3.1.3-Goals

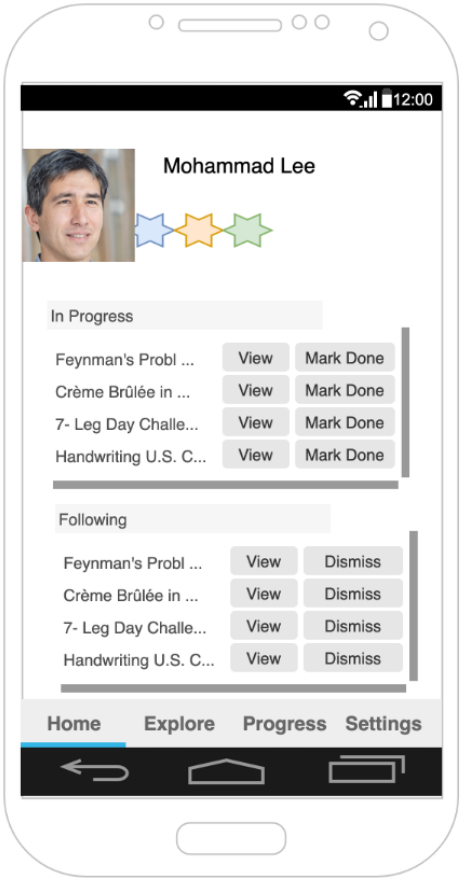
- Mohammad has more leisure time nowadays, so he wants to explore some new topics to be acknowledged about them according to his past interest areas.
- He decides to enter the his favorite app and see what it suggests.

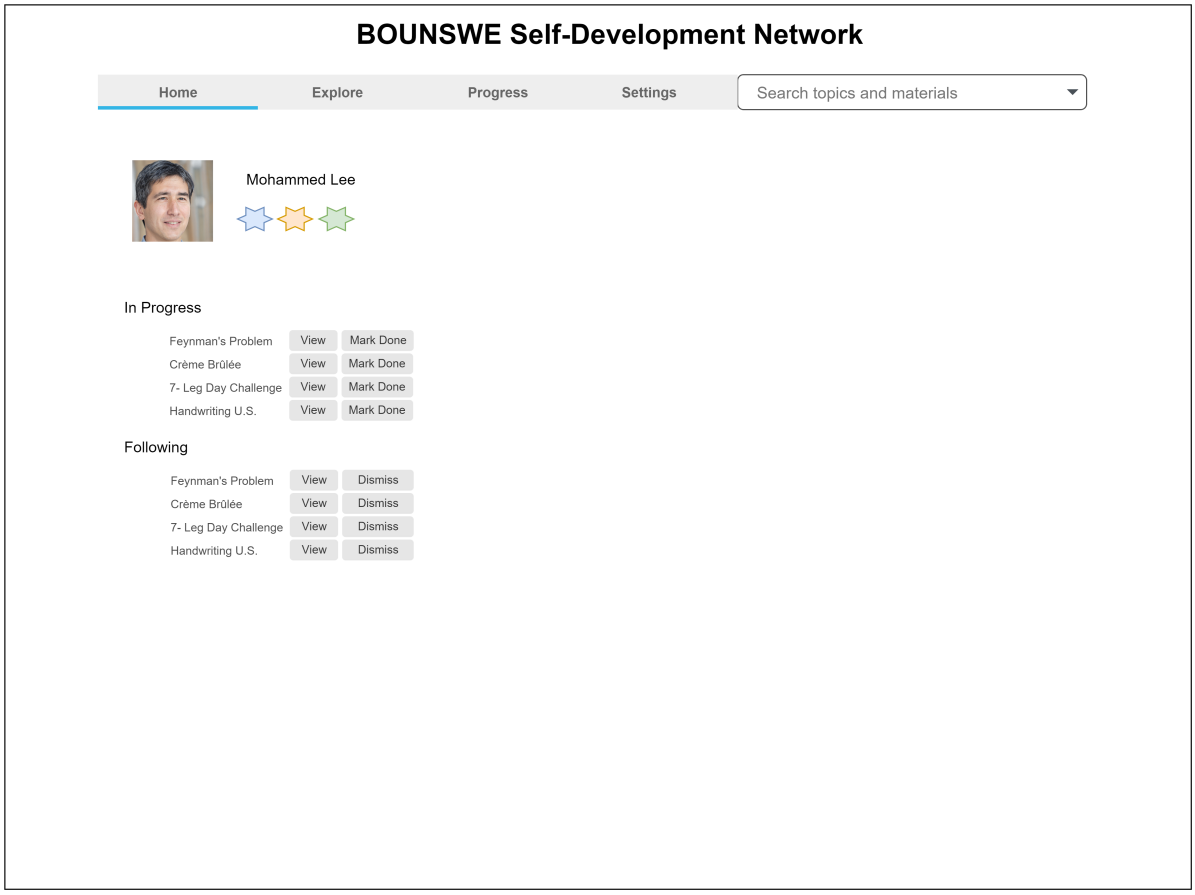
6.3.1.4-Acceptance Criteria

- **(Req.1.1.2.)** The System shall provide its users access to it by means of specialized accounts.
- **(Req.1.2.3.)** The System shall determine and inform its users about topics they could be potentially interested.
- **(Req.1.2.4.)** The System shall supply its users with recommendation of materials.
- **(Req.1.2.7.)** The users should be able to reliably record topics they want to improve on.
- **(Req.1.3.1.)** The users should be able to create custom pages representing their accounts and those pages that ease their access to other functionalities, like a dashboard.
- **(Req.1.3.4.)** The users should be able to share their comments on specific topics.
- **(Req.1.4.2.)** The users should be able to customize the way the notifications are sent.
- **(Req.2.1.1.)** An Android Application and a Web Application shall be implemented as instances of the Interface.

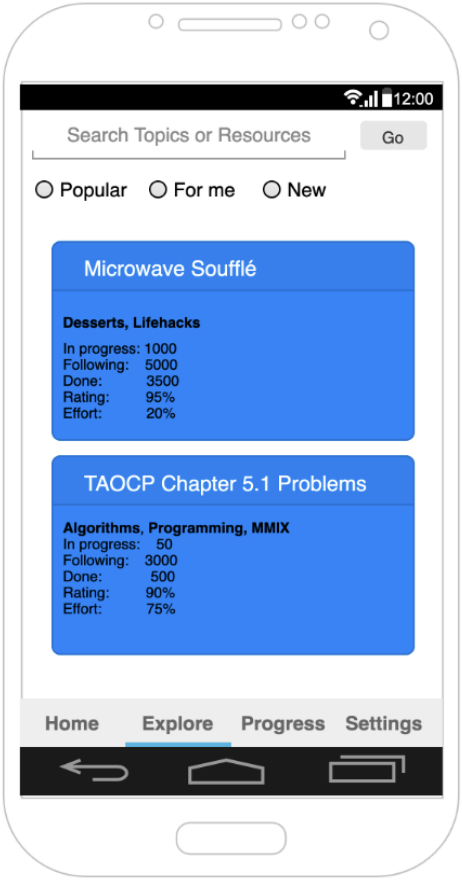
6.3.1.5-Actions & Mockups

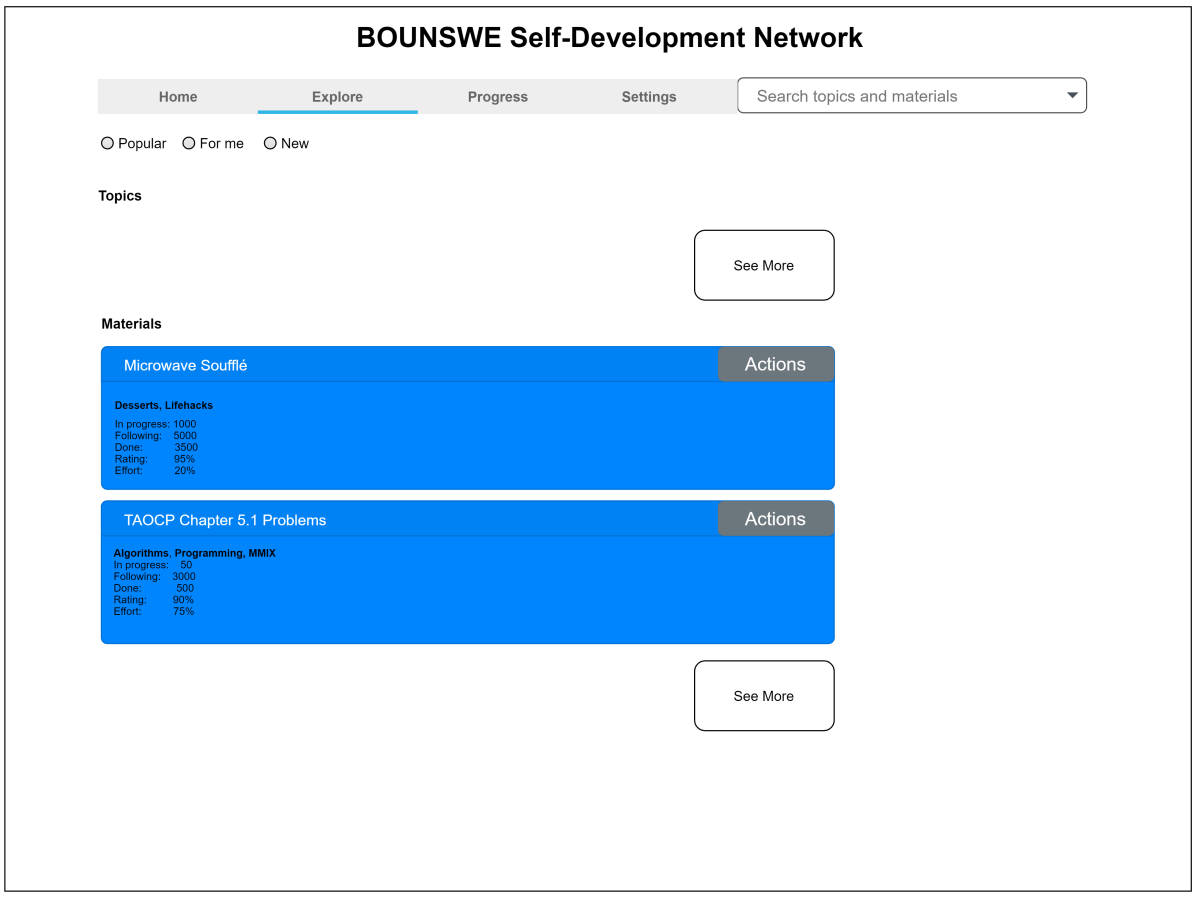
1. Mohammad is in pursuit of meeting a new topic increasing his technical knowledge. He is already an experienced user of our app. Since he is auto logged in to the app, when he clicks, the home page is opened.



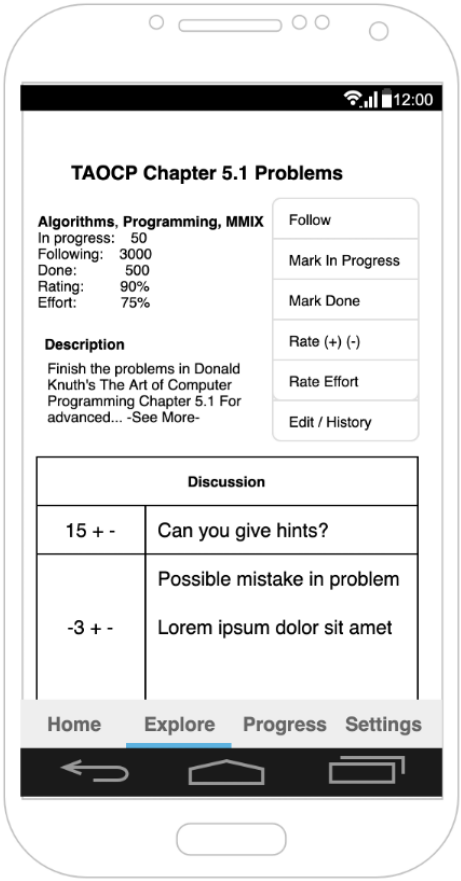


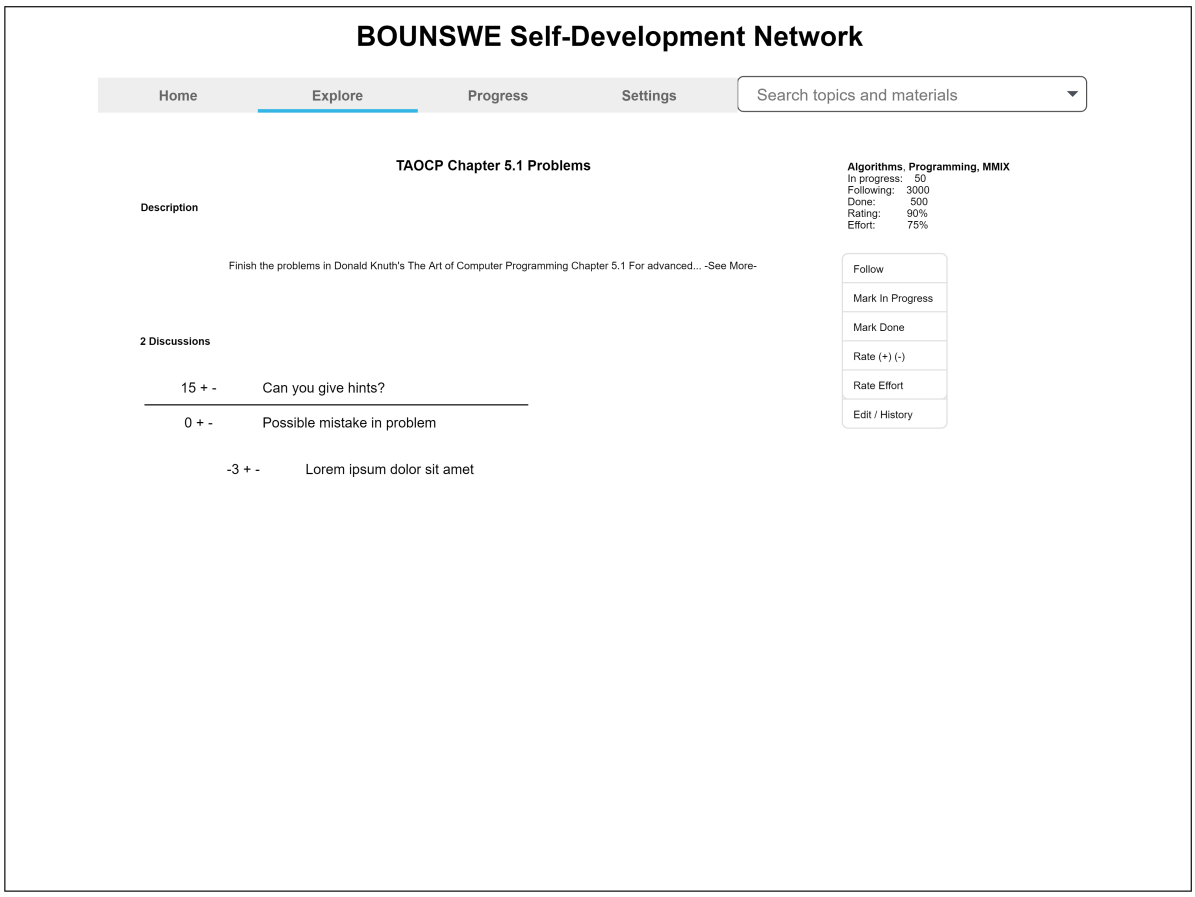
2. He goes to the Explore tab to see which topics the app suggests him. There are some options according to his past interests.



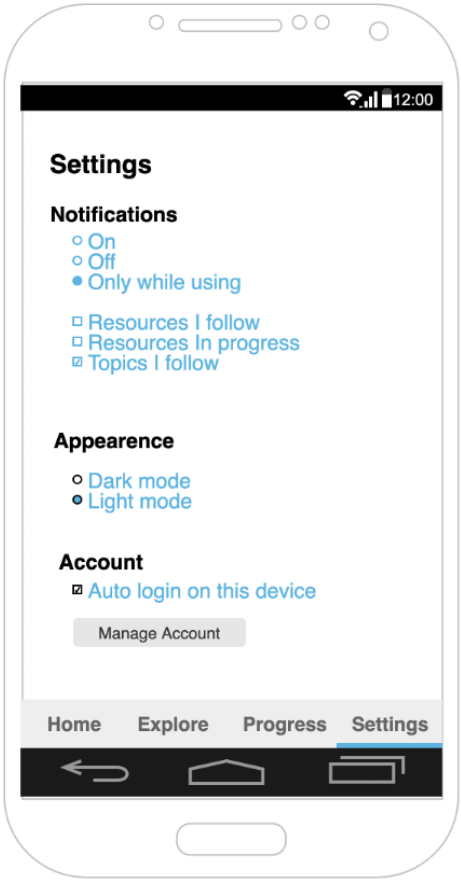


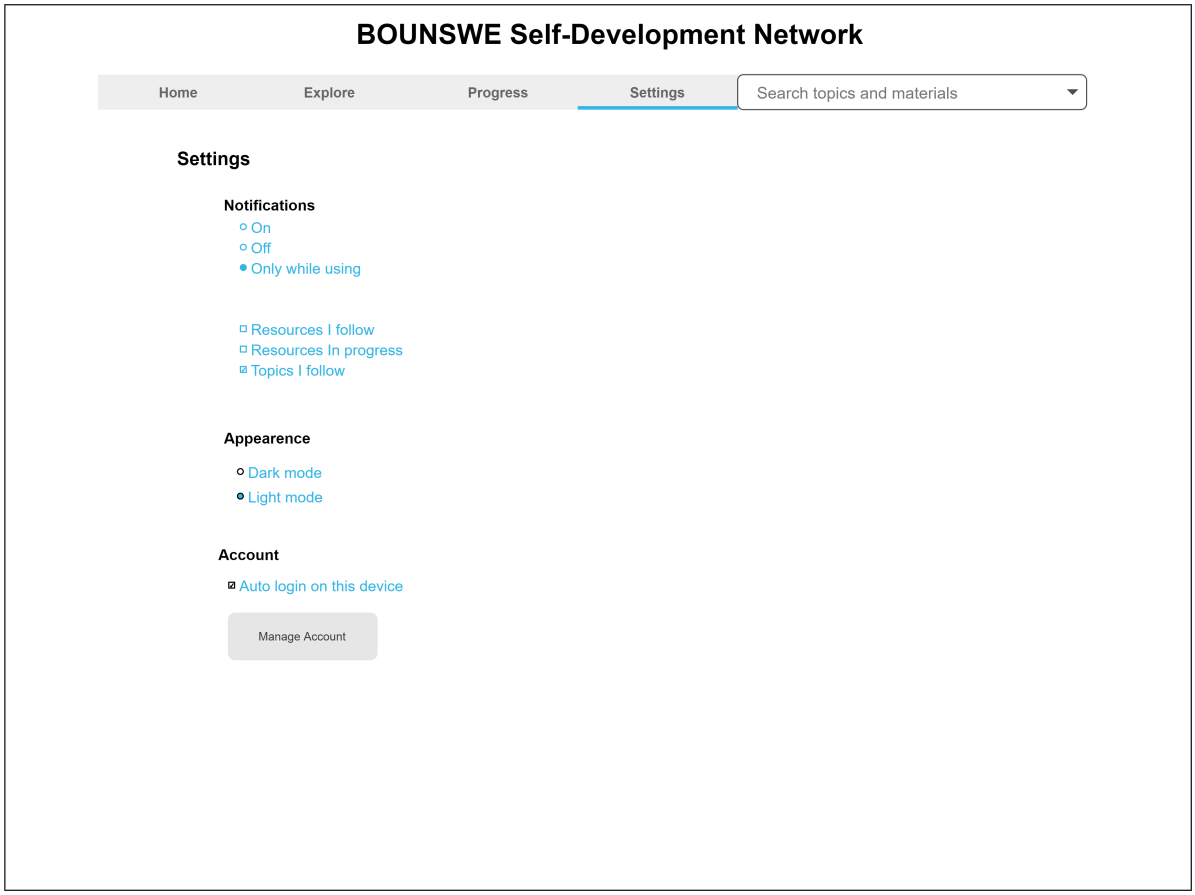
3. He clicks the second topic to view the related page including discussion part and various materials of this topic and follows it.





4. After he finishes his job in the Explore tab, he goes to the Settings tab. He turns on his notifications of the topics he follows with the curiosity of starting following a new topic before quitting the app.





6.3.2-Scenario 2

6.3.2.1-User Persona

- **Photo:**
- **Name:** Ramesh Kardashayan
- **Age:** 32
- **Job:** Computer Engineer
- **Interest:** Programming, Handwriting, Rick Astley

6.3.2.2-Preconditions

- Ramesh is already signed up and logged in the android app.

6.3.2.3-Goals

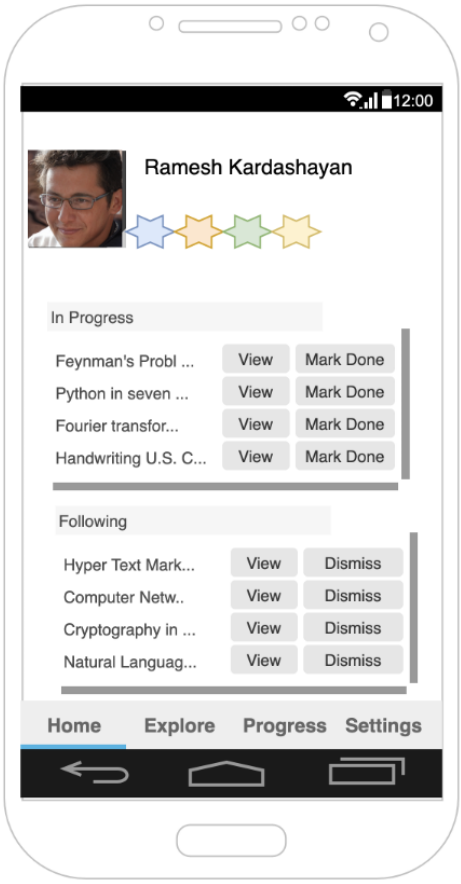
- He wants to change the classification of an HTML exercise.

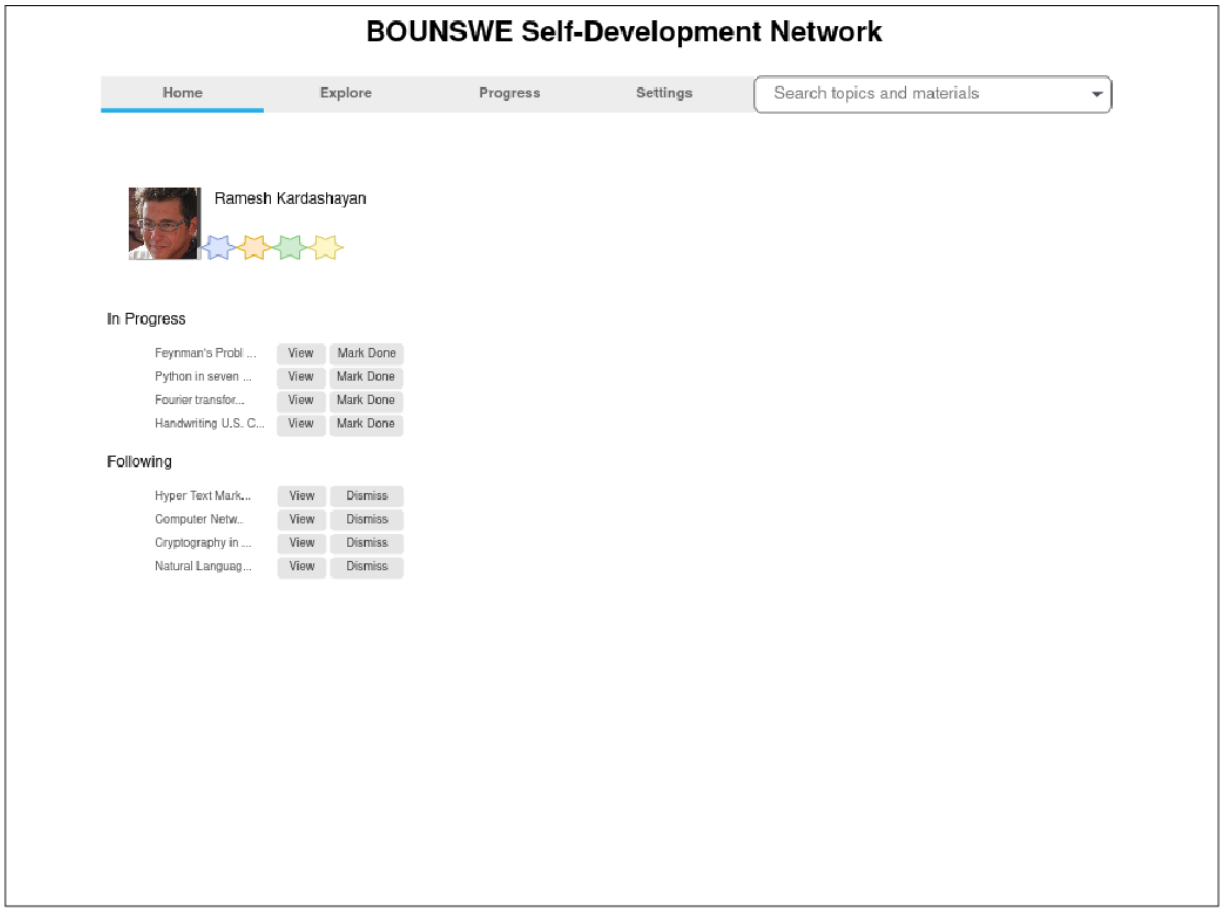
6.3.2.4-Acceptance Criteria

- **(Req.1.1.2.)** The System shall provide its users access to it by means of specialized accounts.
- **(Req.1.2.4.)** The System shall supply its users with recommendation of materials.
- **(Req.1.2.7.)** The users should be able to reliably record topics they want to improve on.
- **(Req.1.3.4.)** The users should be able to share their comments on specific topics.
- **(Req.2.1.1.)** An Android Application and a Web Application shall be implemented as instances of the Interface.

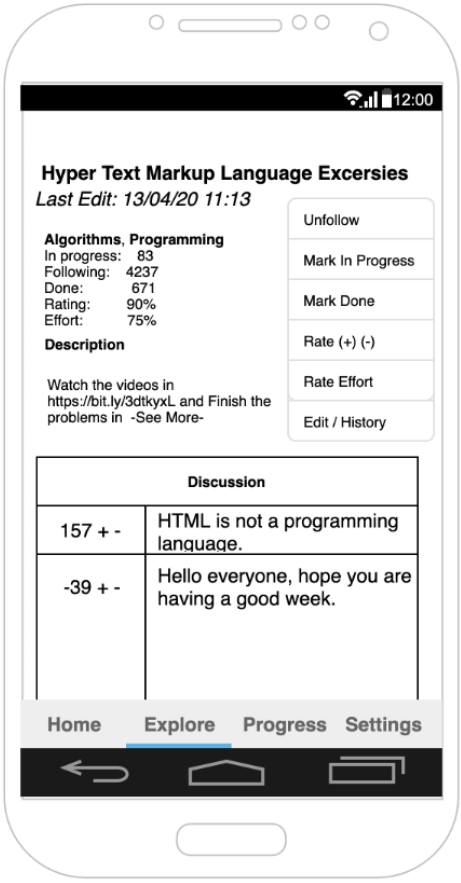
6.3.2.5-Actions & Mockups

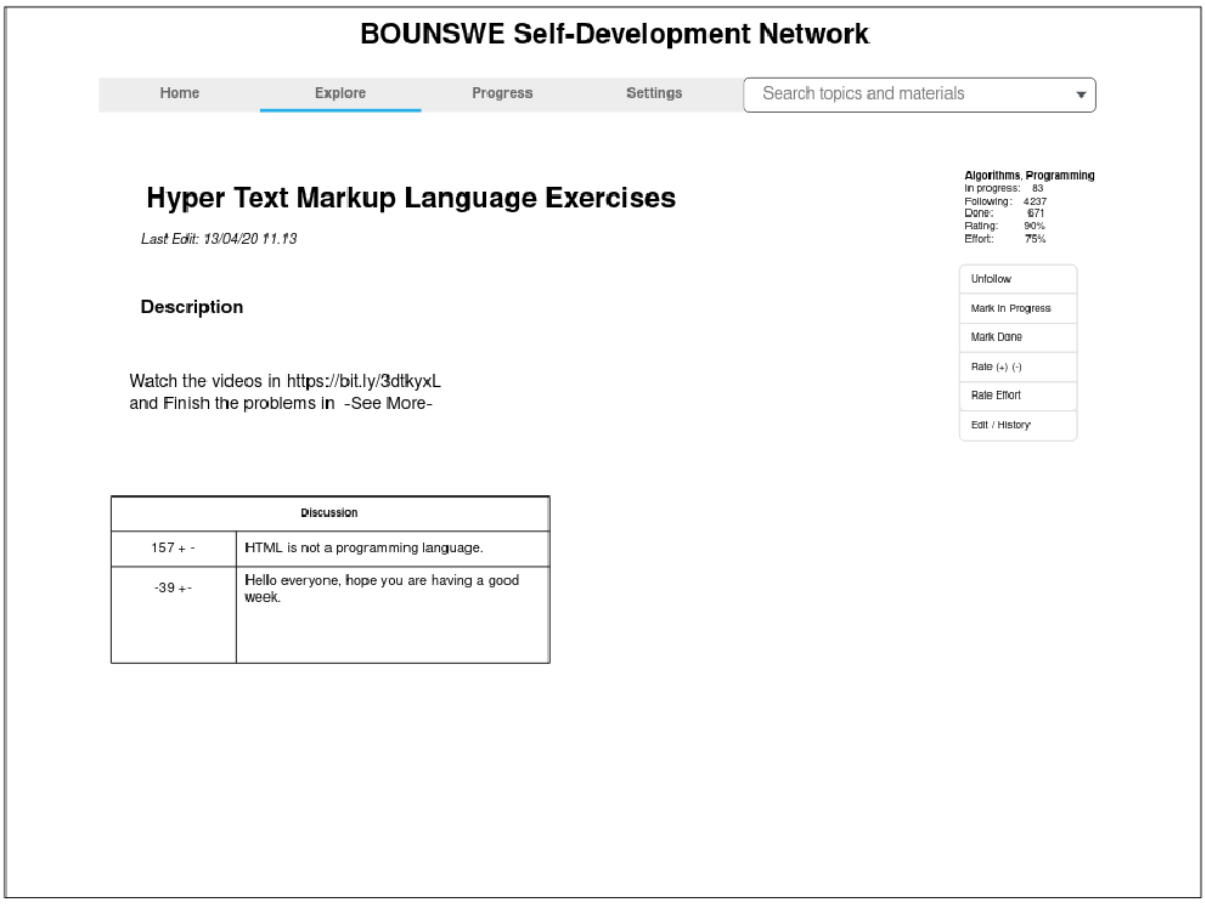
1. Ramesh opens his app and home page appears (Figure 1). He wonders what's new in his following content Hyper Text Markup Language Exercises and clicks the View Button.



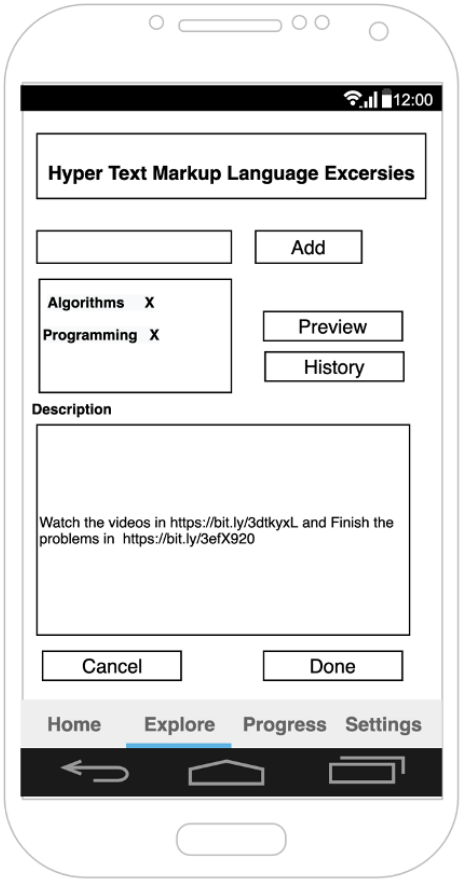


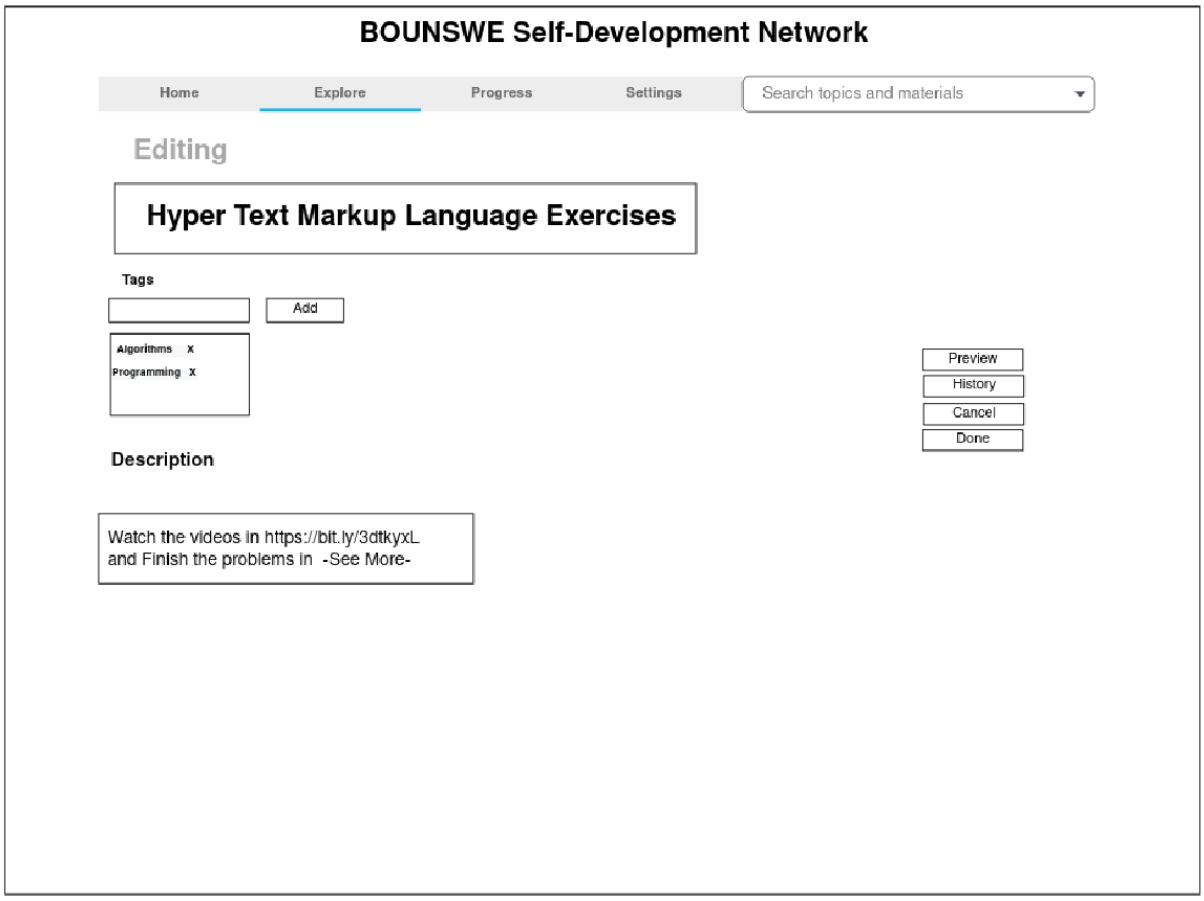
2. Hyper Text Markup Language Exercises page appears and he noticed that related topics of this page are wrong. So, he decides to change the related topics and press the Edit/History button.



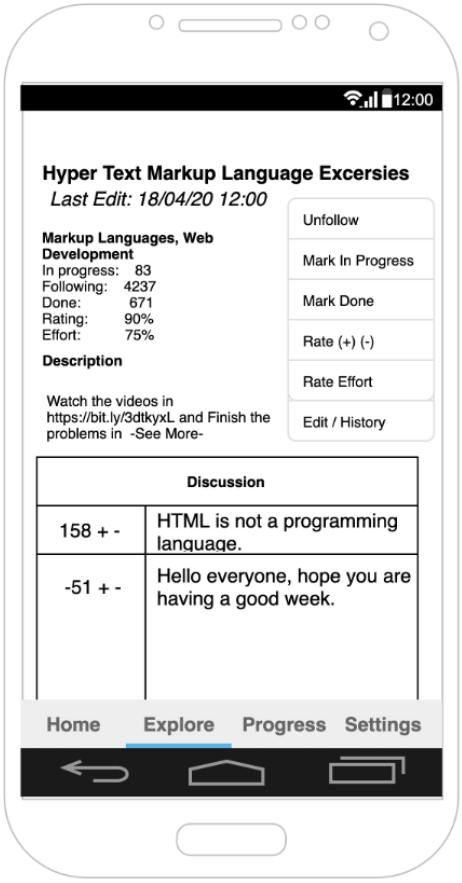


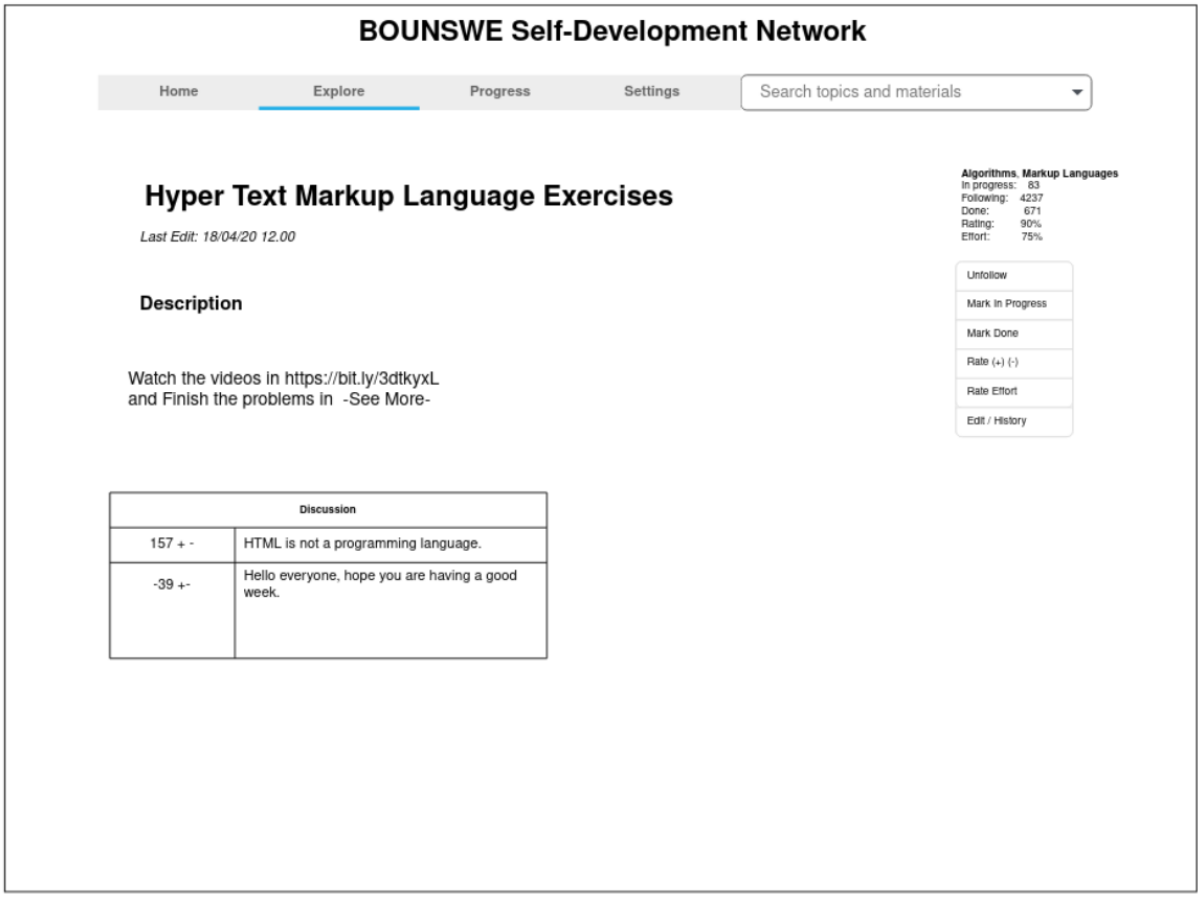
3. Edit page appears. He can add/delete topics, change the description or header. He deletes the related topics and add the new ones. Then press the Done Button.





4. Related topics and the last edit date changed.





6.3.3-Scenario 3

6.3.3.1-User Persona

- **Photo:** ???
- **Name:** Tom Marvolo Riddle

- **Age:** 16
- **Job:** Student
- **Interest:** Dark Magic, Magic, Duelling

6.3.3.2-Preconditions

- Tom is in the web app.
- Tom has not any account and is not signed up.

6.3.3.3-Goals

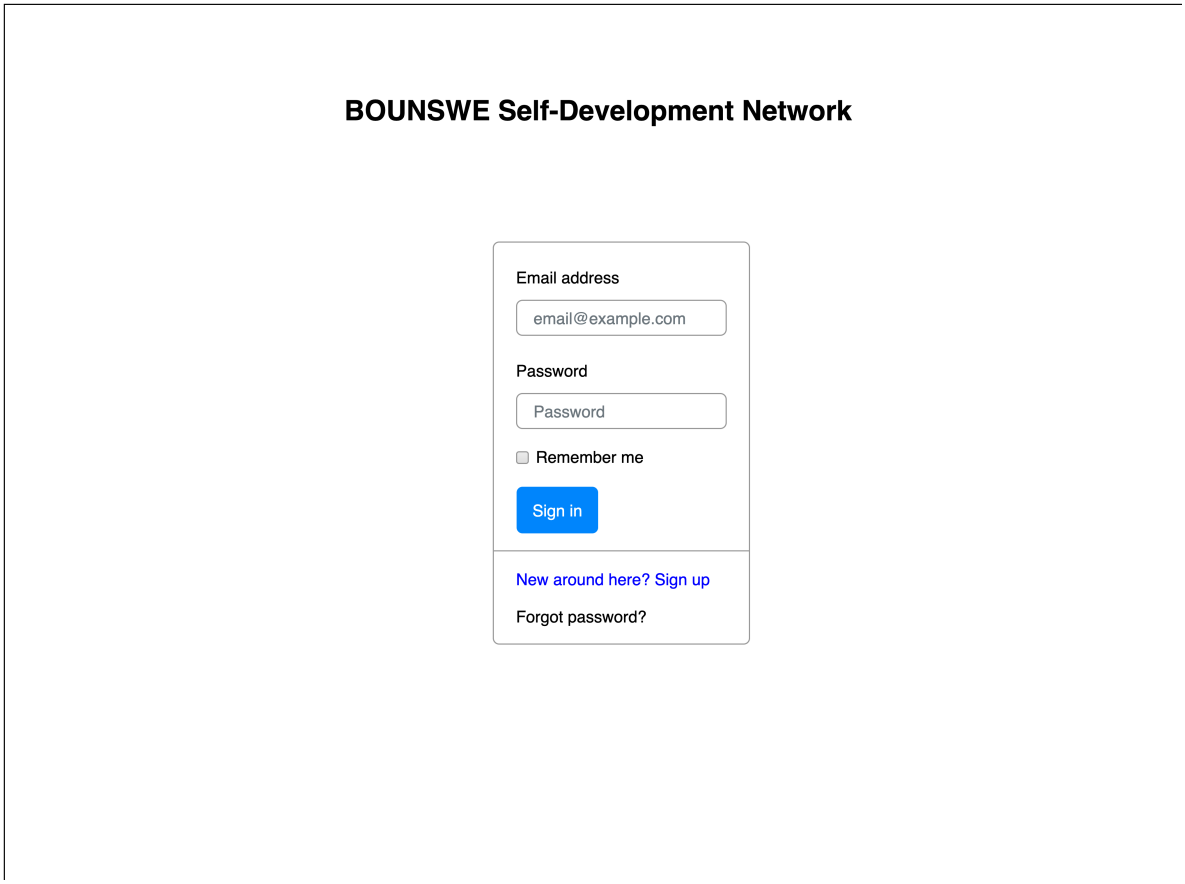
- To become immortal. (to find a material about a topic he is interested in)
- To find out about how to create a crucifix to ensure that.

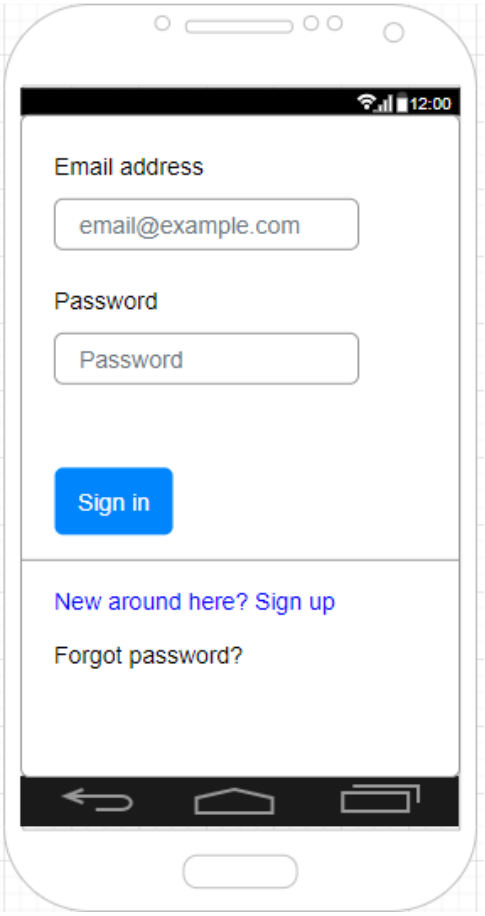
6.3.3.4-Acceptance Criteria

- **(Req.1.1.2.)** The System *shall* provide its users access to it by means of specialized accounts.
- **(Req.1.1.3.)** The users *shall* be able to create and delete their accounts and be able to gain access if they prove identity in case they forget their password.
- **(Req.1.2.7.)** The users *should* be able to reliably record topics they want to improve on, or break/ develop a habit.
- **(Req.1.4.3.)** The users *should* be able to search data assigned to topics using keywords.
- **(Req.2.1.1.)** An Android Application and a Web Application *shall* be implemented as instances of the Interface.
- **(Req.2.1.3.)** The System *shall* express topics using semantic representation as defined in Wikidata.

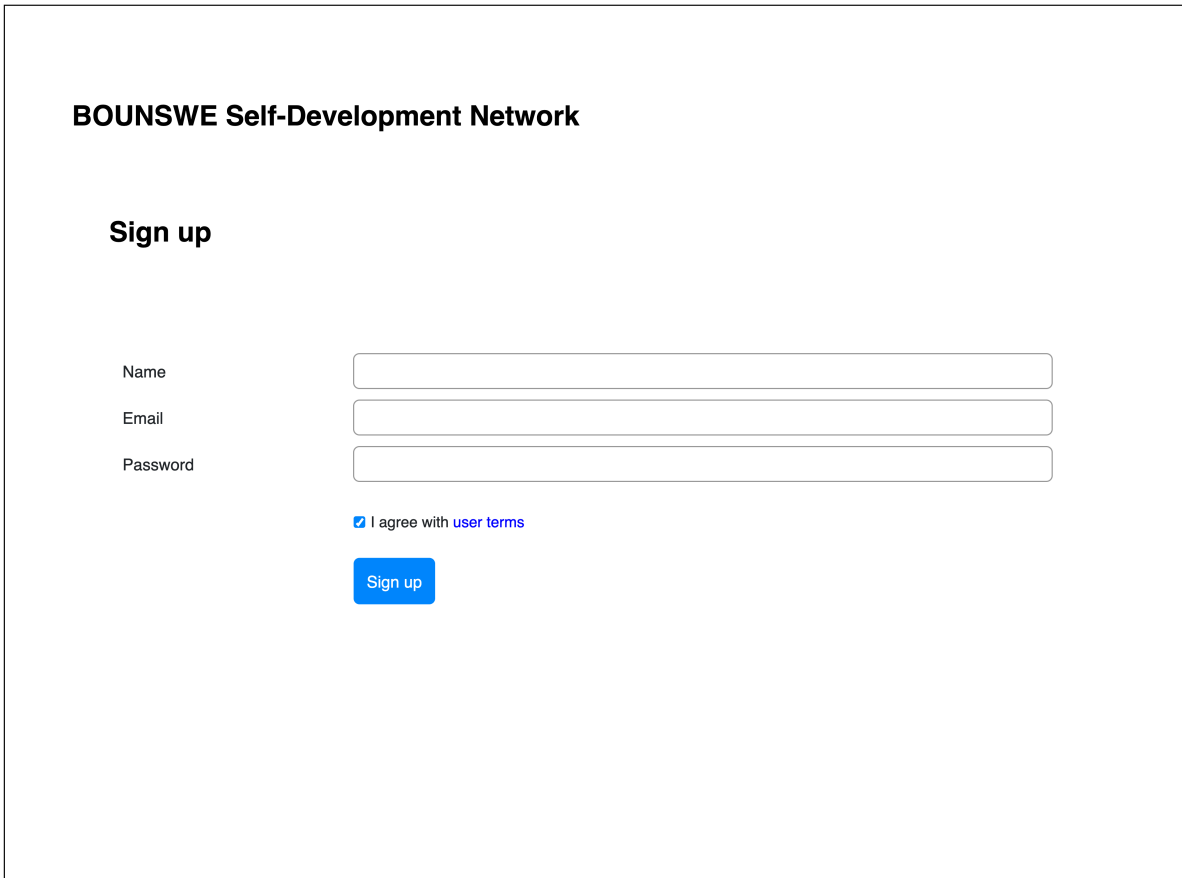
6.3.3.5-Actions & Mockups

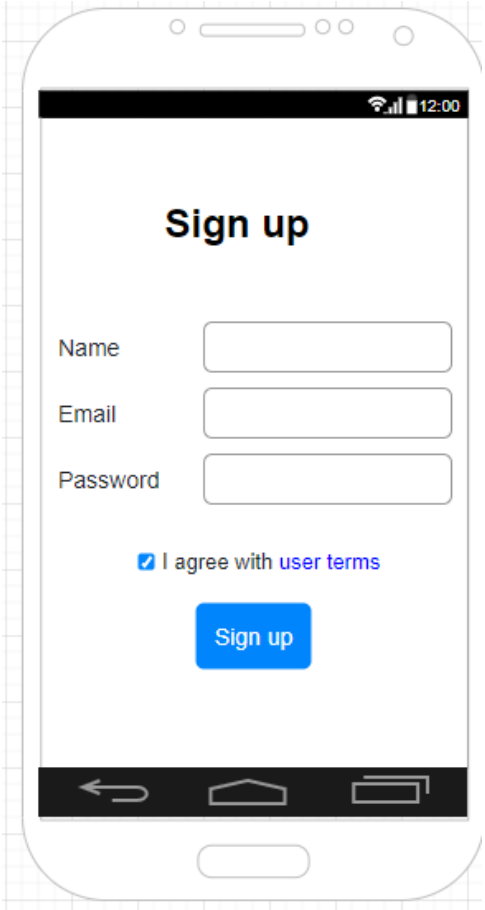
1. He opens the site. He realizes that he does not have an account. He clicks the sign up button.



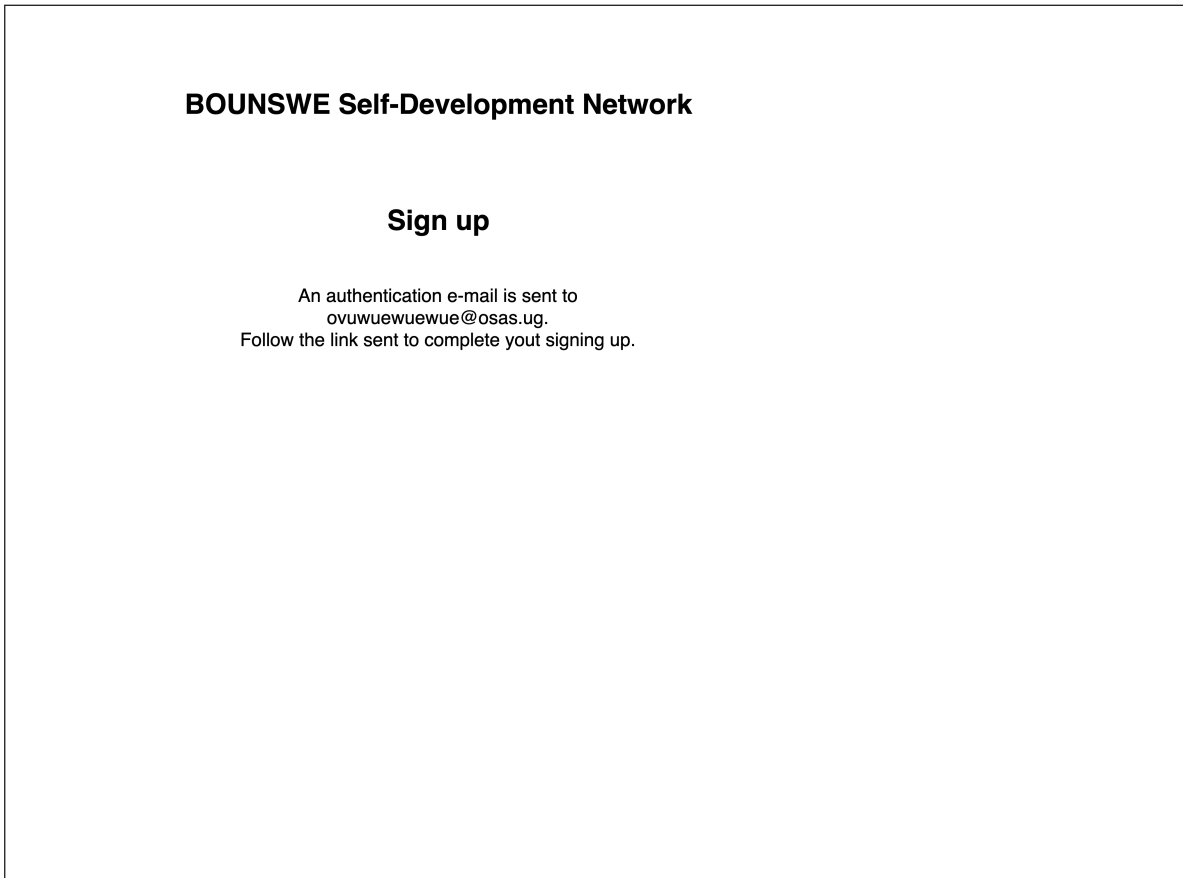


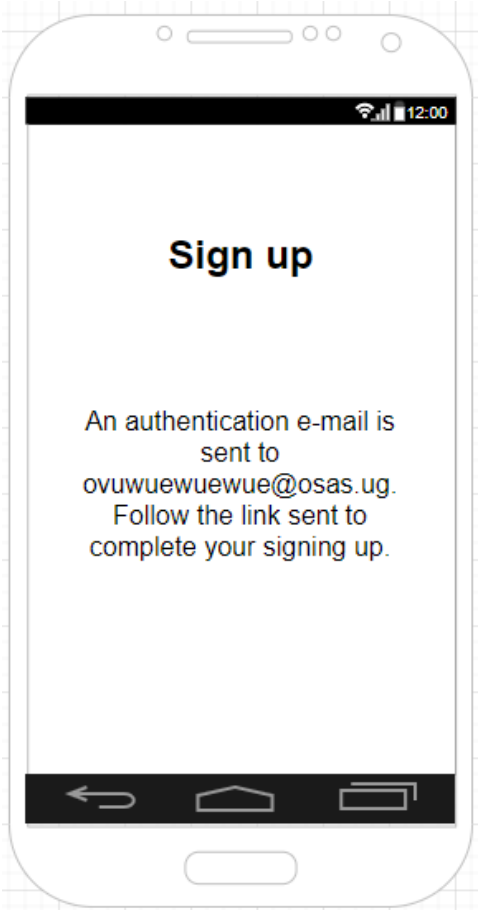
2. He enters his personal information and he agrees with the user terms. Then he is prompted to the page in the figure.



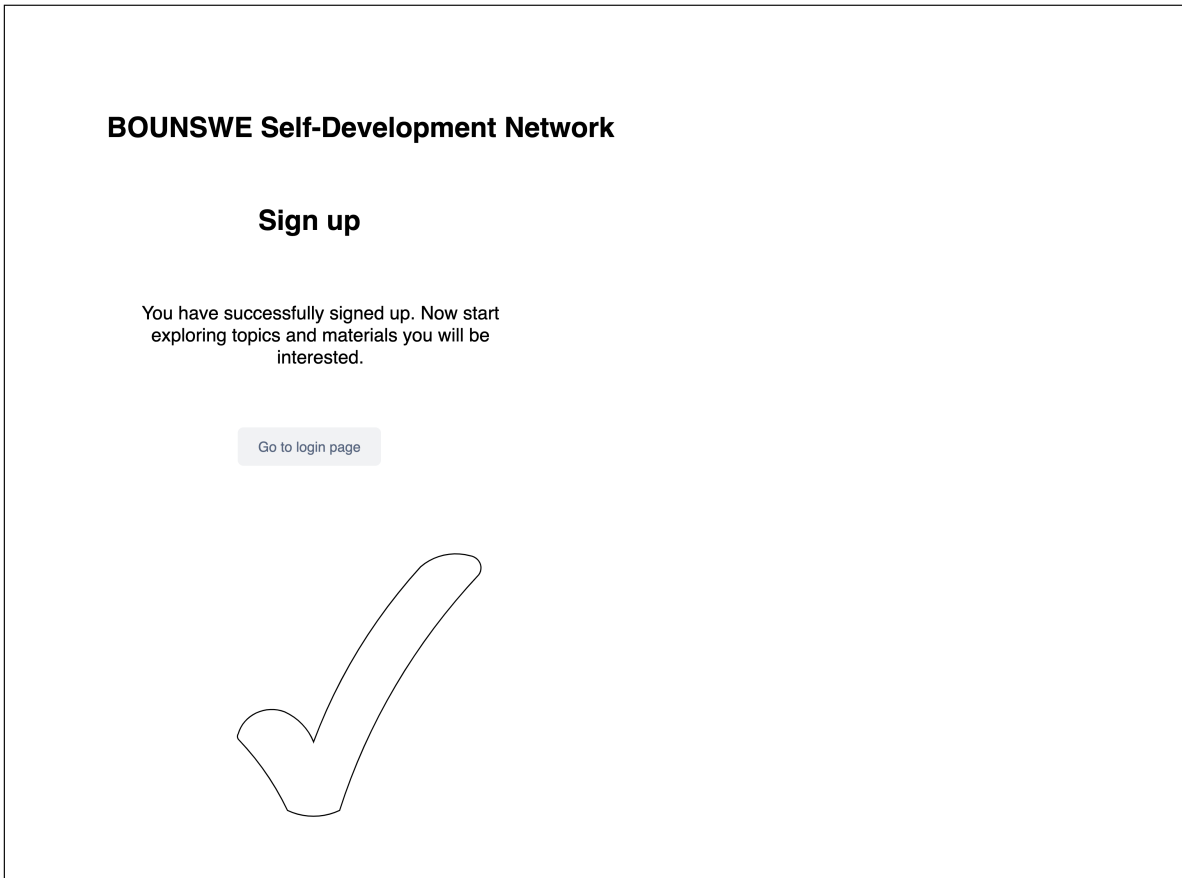


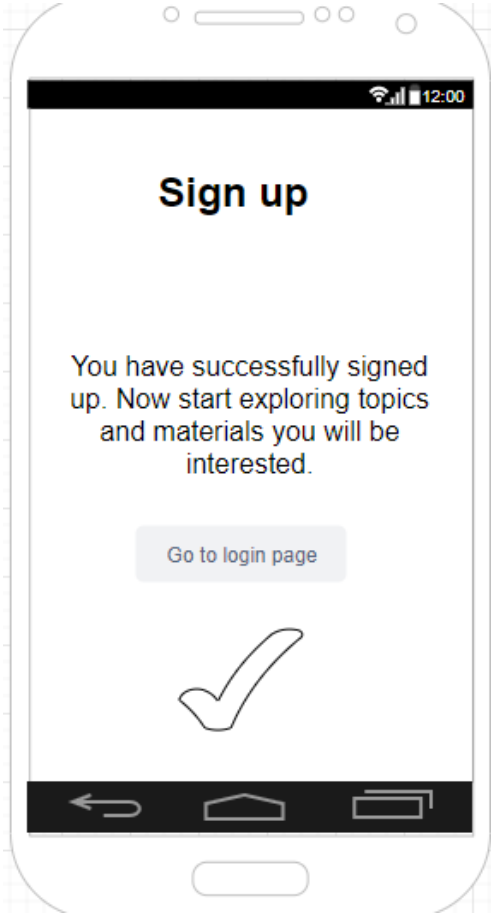
3. He confirms his e-mail by clicking on the link sent to the given mail address.



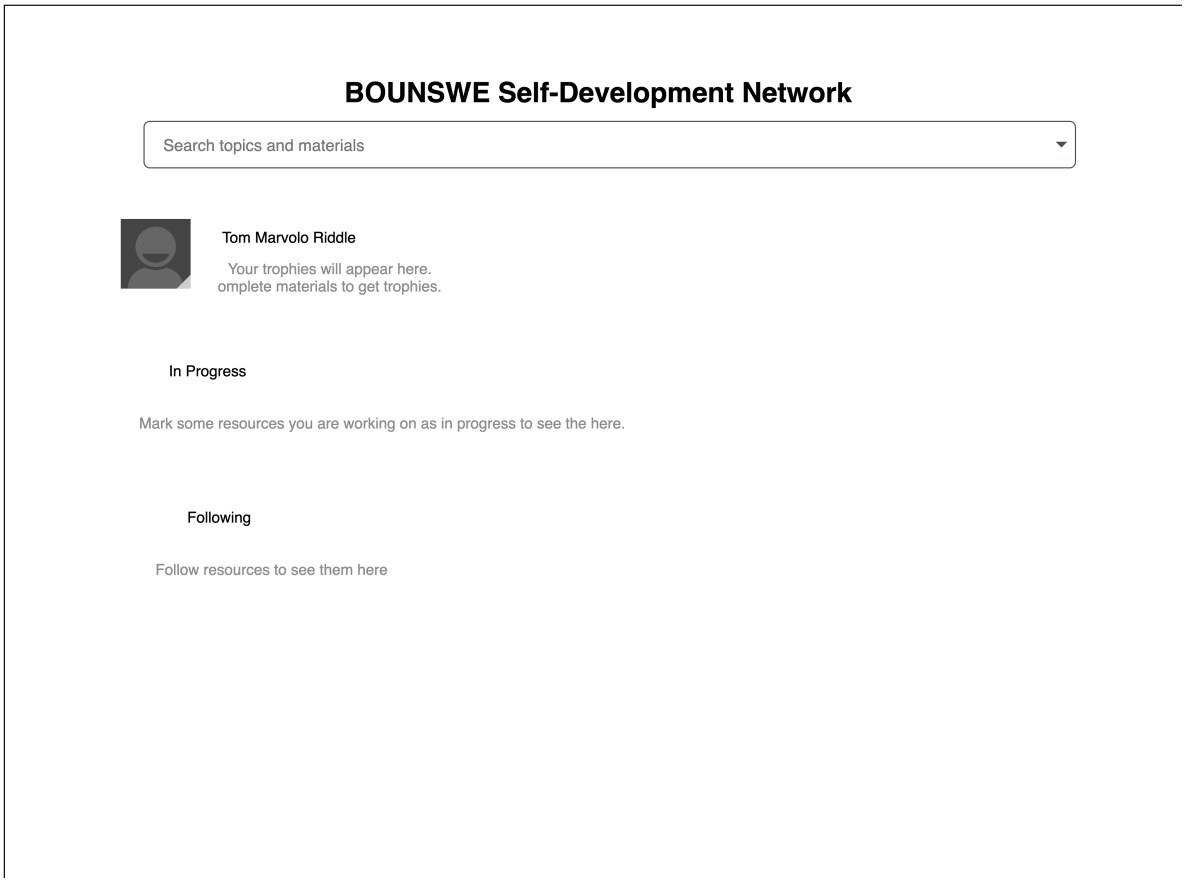


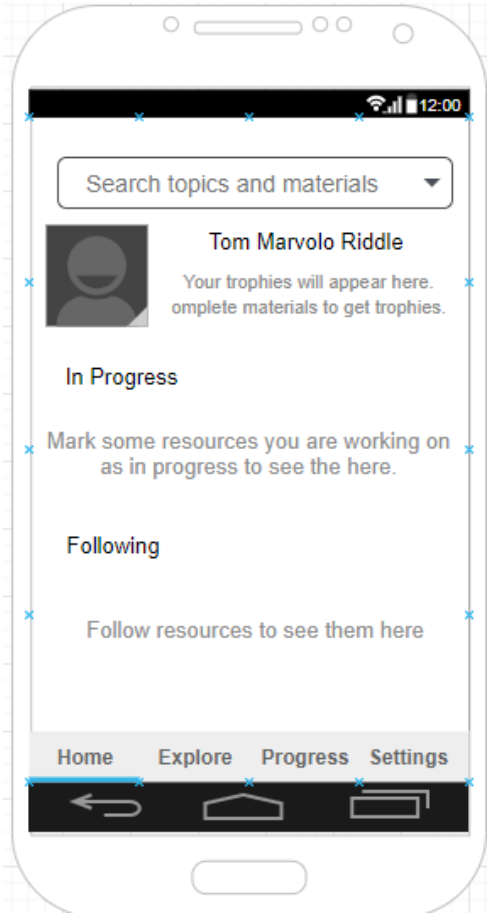
4. He is redirected to the page in the figure, where he clicks the button and goes to his home page.



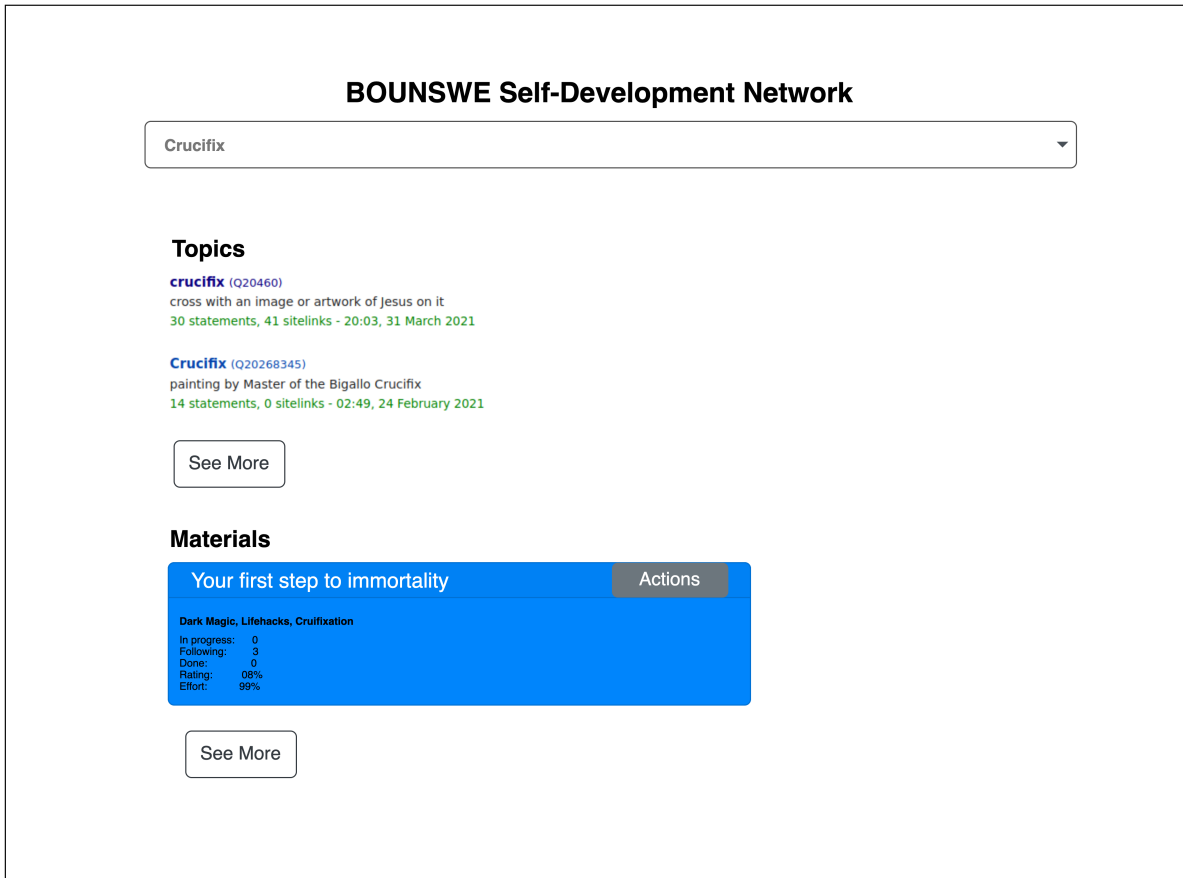


5. He does not have any topics or material followed in his account.

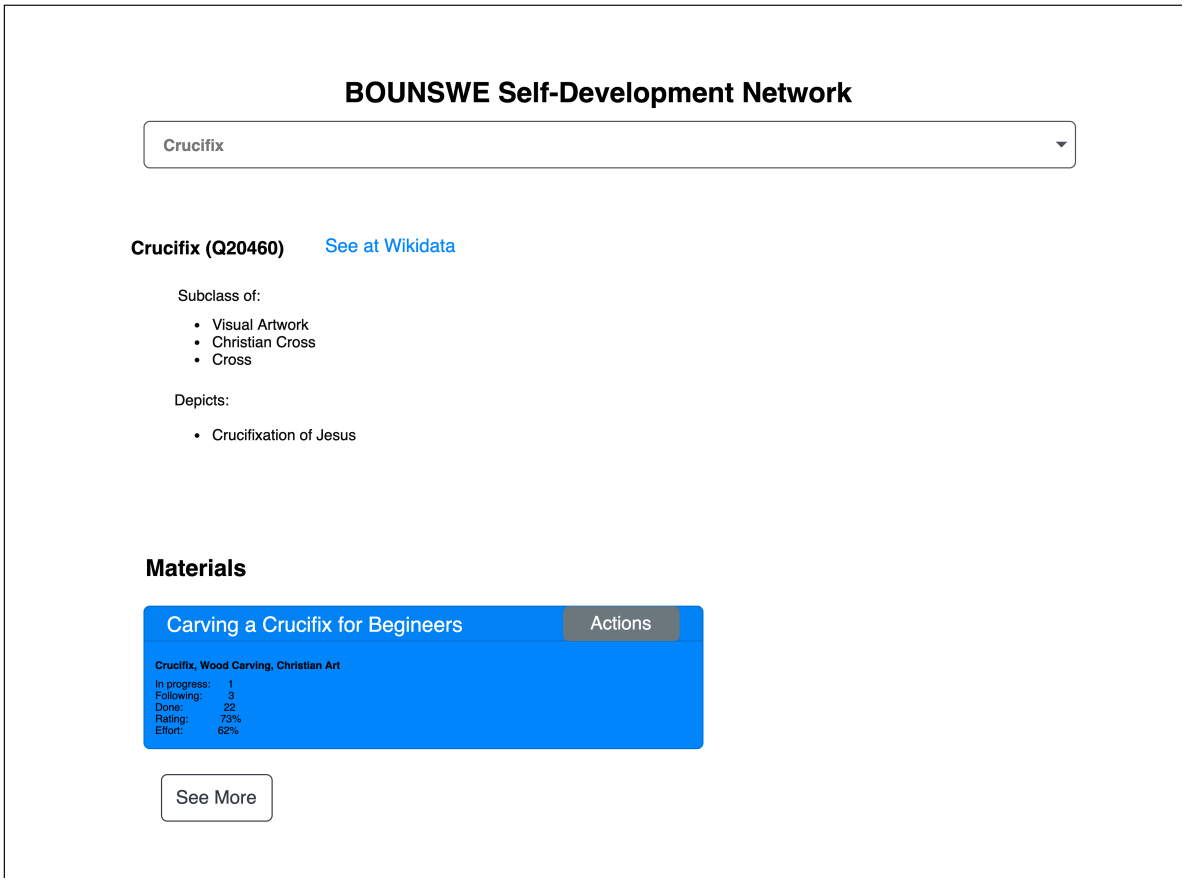


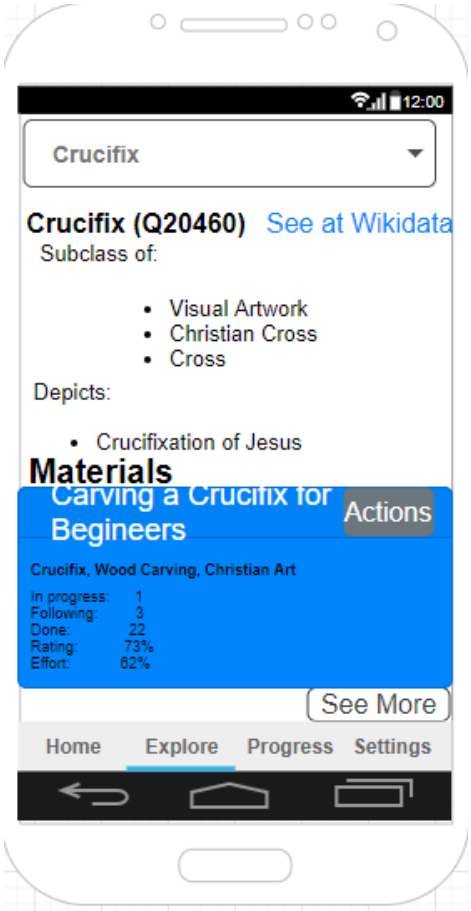


6. He searches for crucifix on the search bar on top, and he is redirected to the page in the figure.

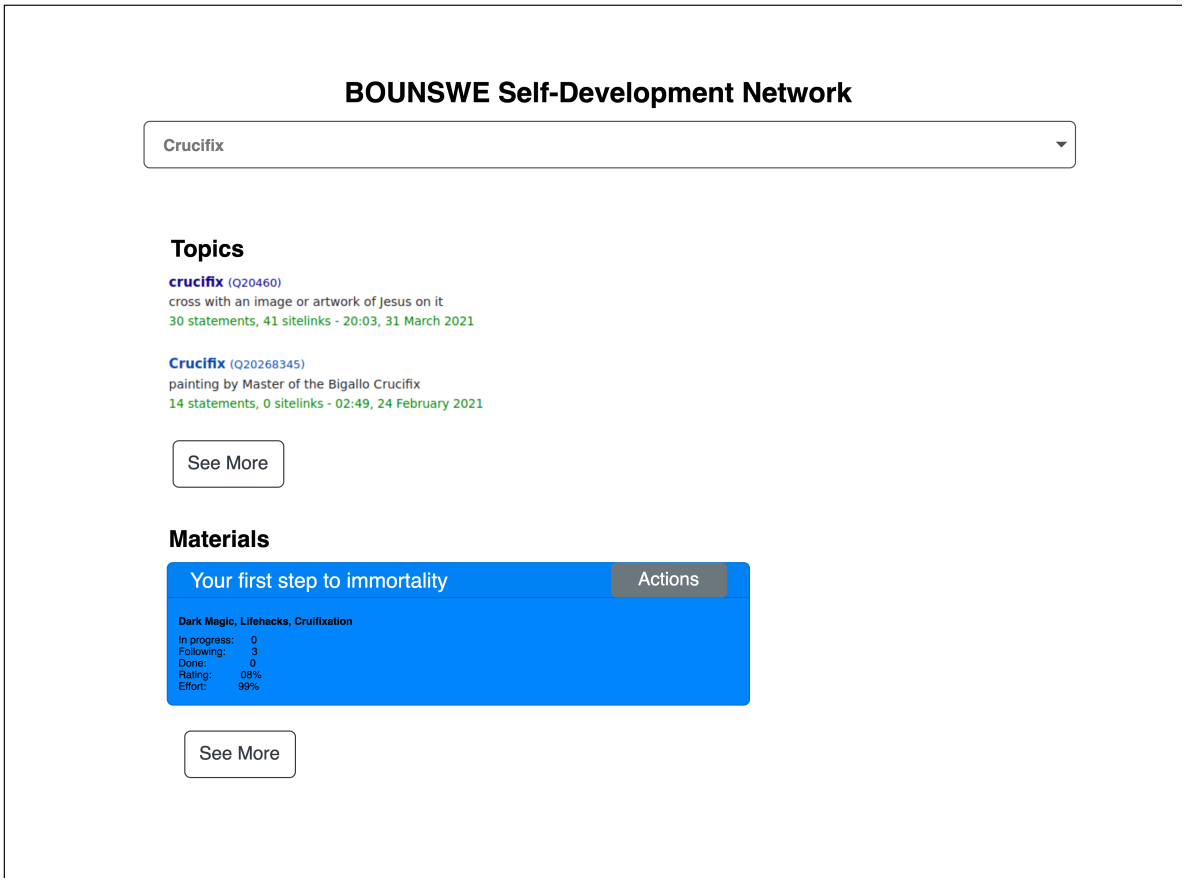


7. He clicks the first topic result and he is prompted to the page in the figure, which he is not satisfied with.

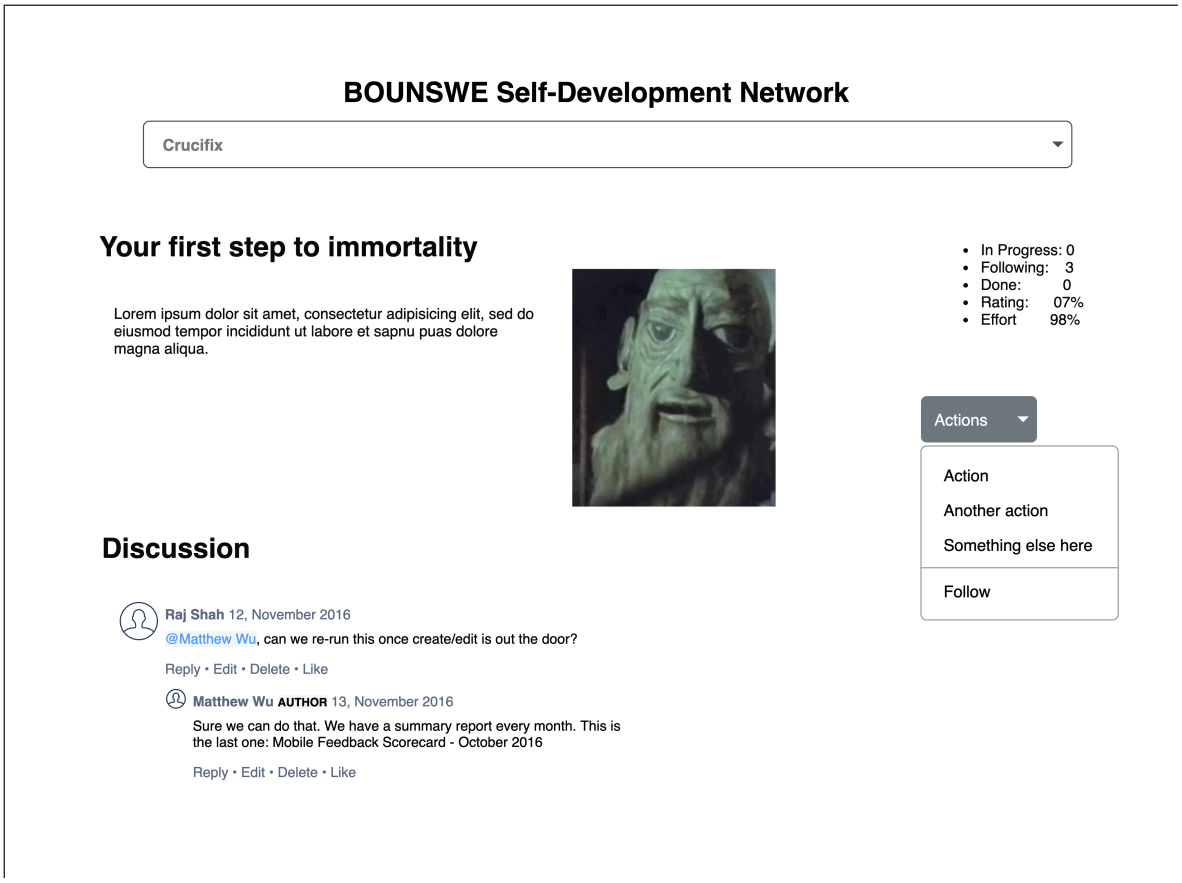


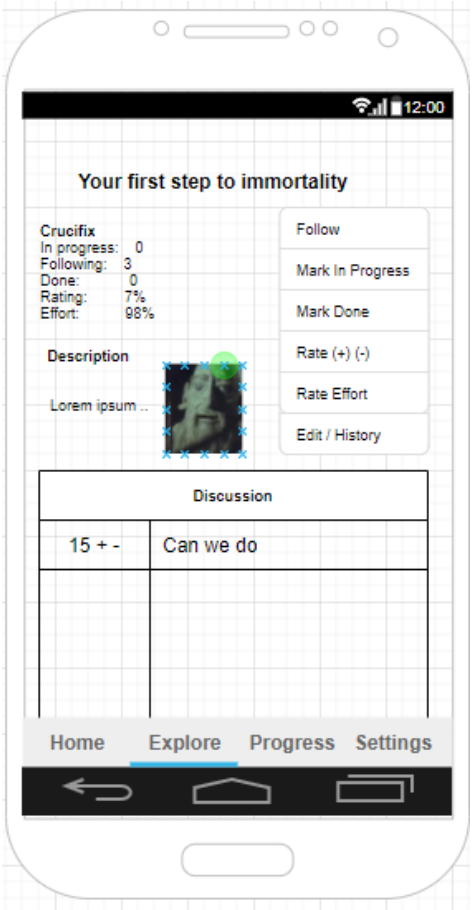


8. So he goes back to the search results, where he sees the material in the bottom, which he finds interesting.



9. He clicks on the material and he is redirected to the resource page in Figure 9. (Figure 9)





10. He clicks on the "Actions" button and follows the resource by clicking on the "Follow" button.
11. He enjoys the material on the page, then closes the web browser.

6.3.4-Scenario 4

6.3.4.1-User Persona

- **Photo:**
- **Name:** Karesi Candaroglu
- **Age:** 21
- **Job:** Student
- **Interest:** Music, Cinema, Cooking, Puzzles, Fitness

6.3.4.2-Preconditions

- Karesi is already signed up and logged in the web app.
- The app is started in Home page.

6.3.4.3-Goals

- Karesi has finished his daily weightlifting and wants to "mark done" his achievement and continue his energetic day.

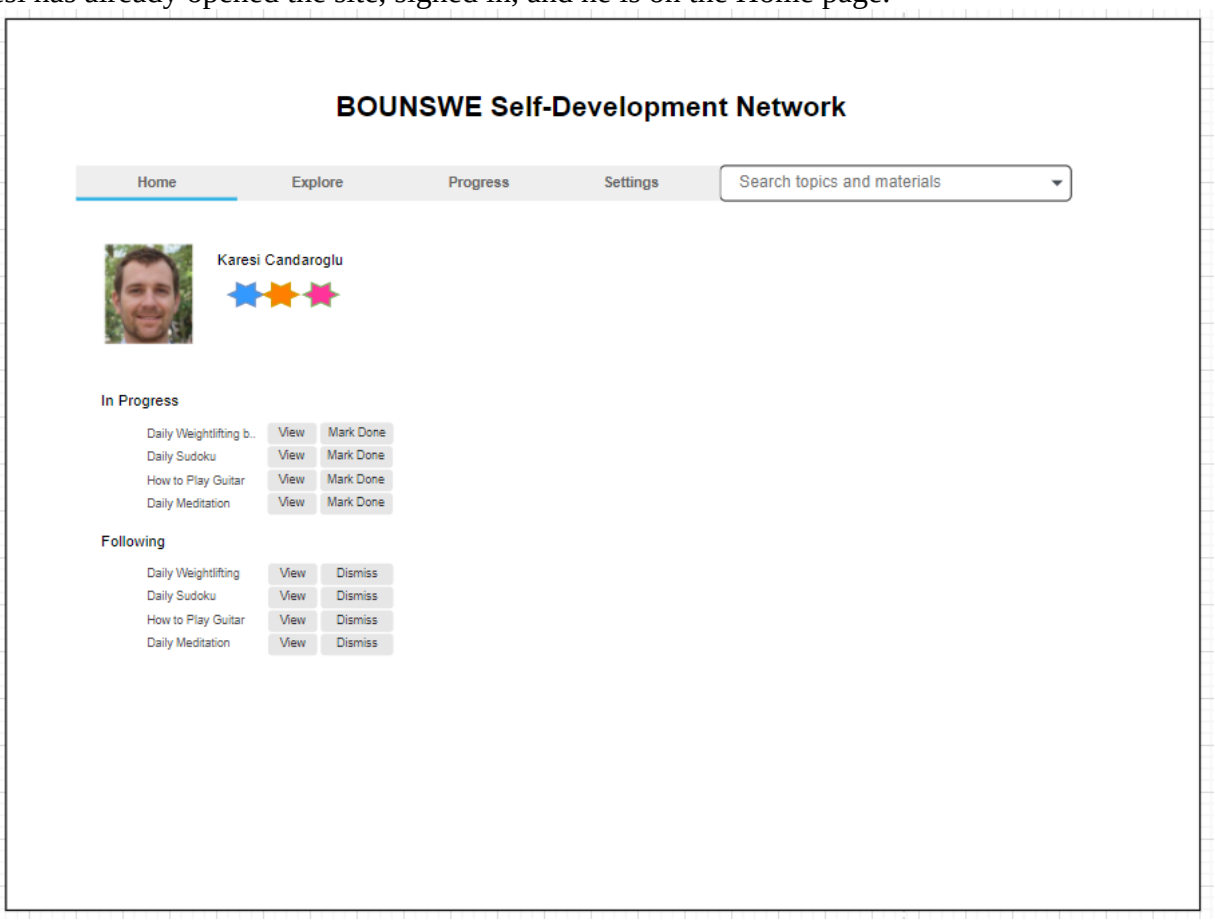
6.3.4.4-Acceptance Criteria

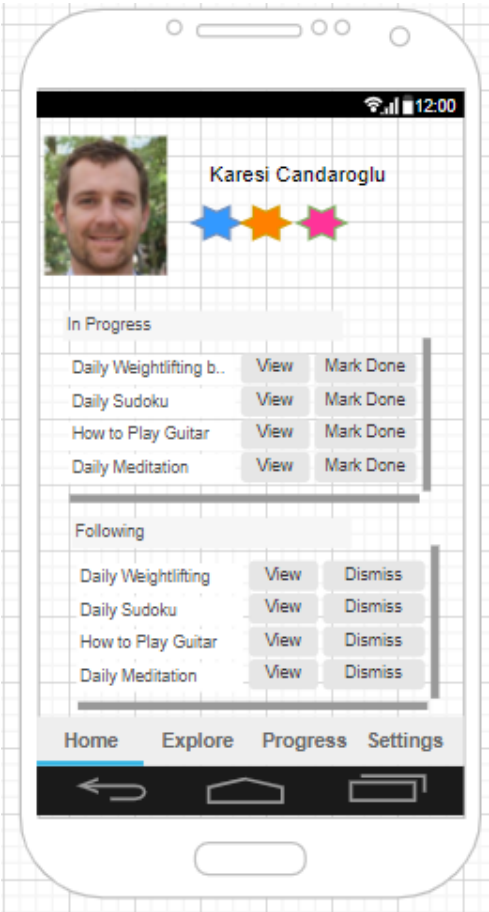
- **(Req.1.1.2.)** The System shall provide its users access to it by means of specialized accounts.
- **(Req.1.2.1.)** The Infrastructure shall reliably record any progress data supplied by the users grouped by materials and topics.
- **(Req.1.2.2.)** The Interface should provide the user with a graphical overview of their past effort.
- **(Req.1.2.7.)** The users should be able to reliably record topics they want to improve on.

- **(Req.1.3.1.)** The users should be able to create custom pages representing their accounts and those pages that ease their access to other functionalities, like a dashboard.
- **(Req.2.1.1.)** An Android Application and a Web Application shall be implemented as instances of the Interface.

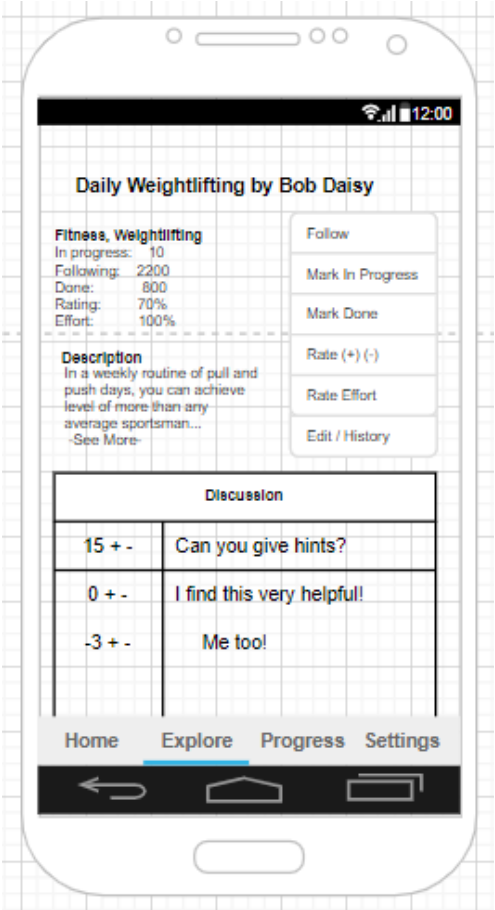
6.2.4.5-Actions & Mockups

1. Karesi has already opened the site, signed in, and he is on the Home page.

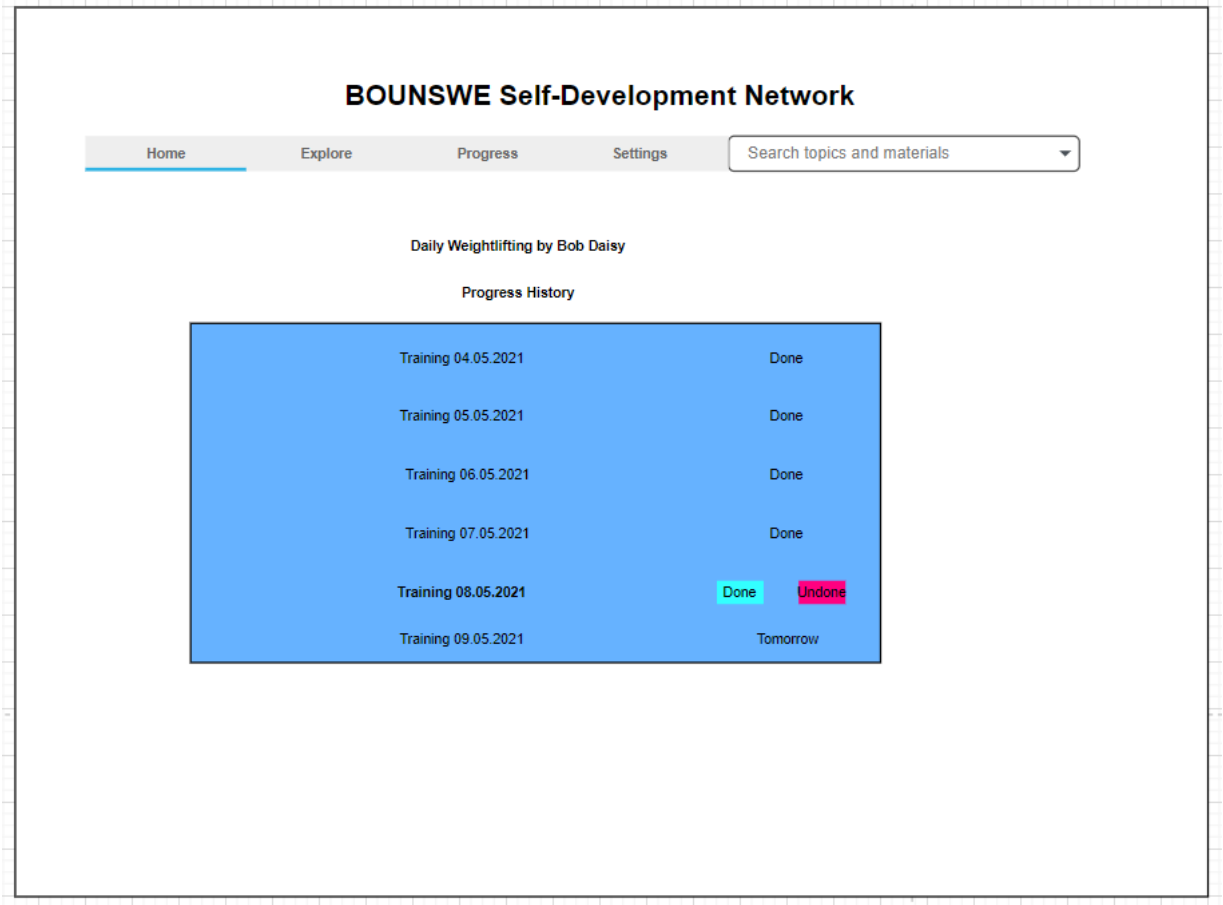


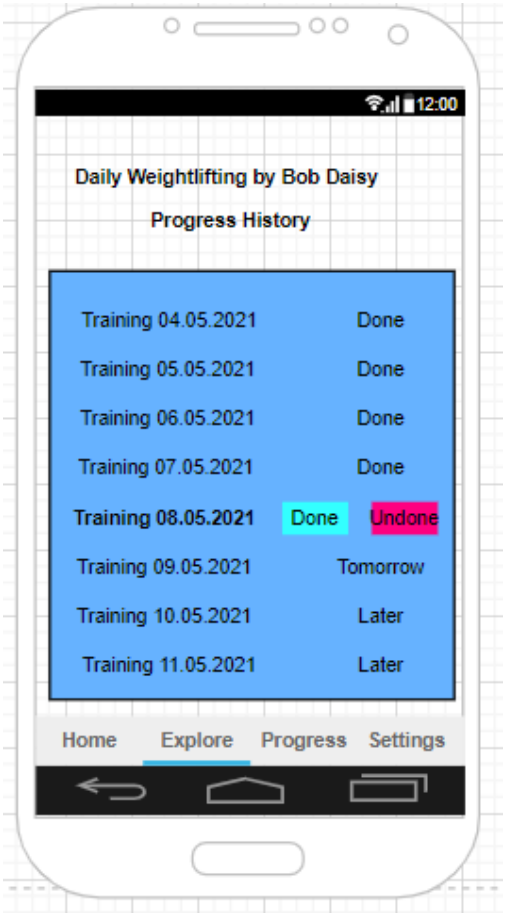


2. He clicks "View" next to the Daily Weightlifting by Bob Daisy. Then he is prompted to the page in the figure.

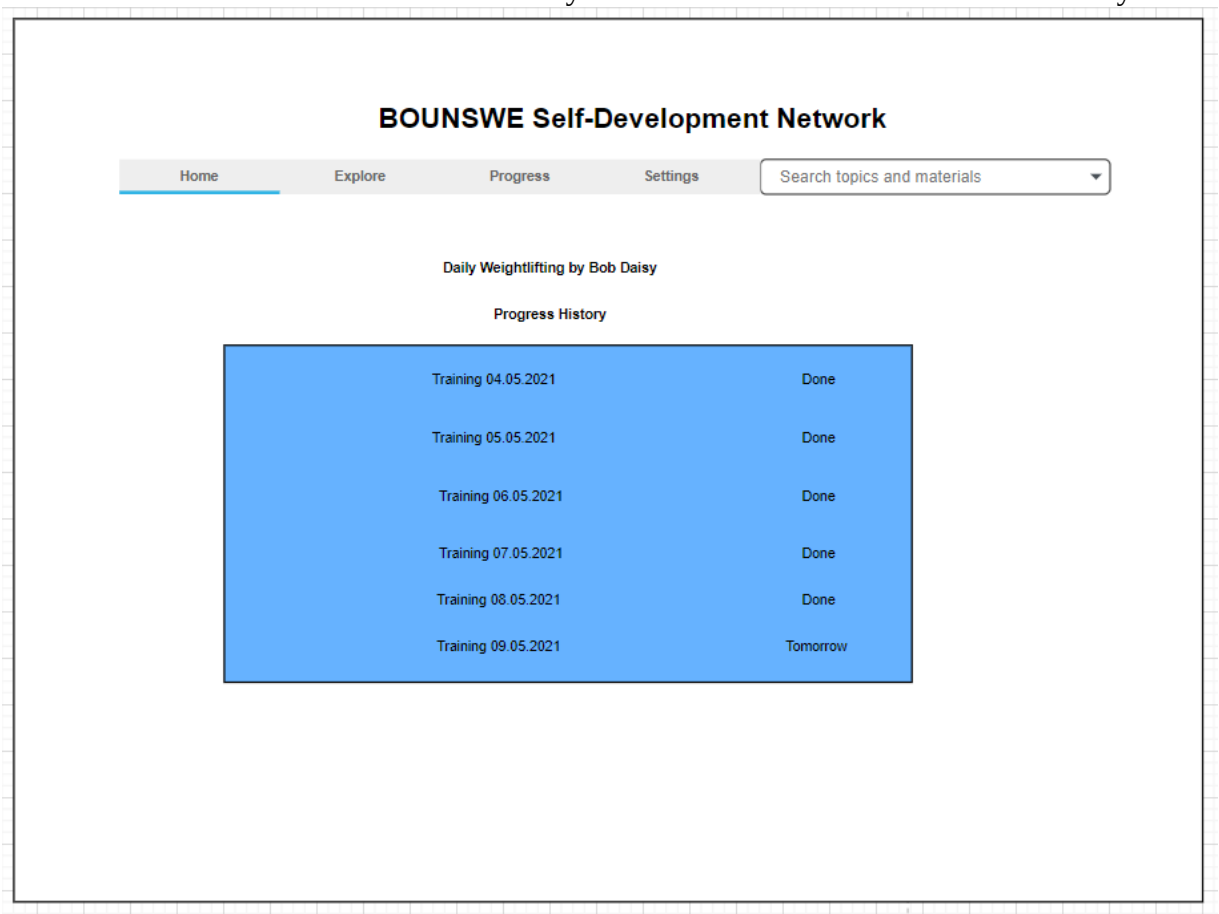


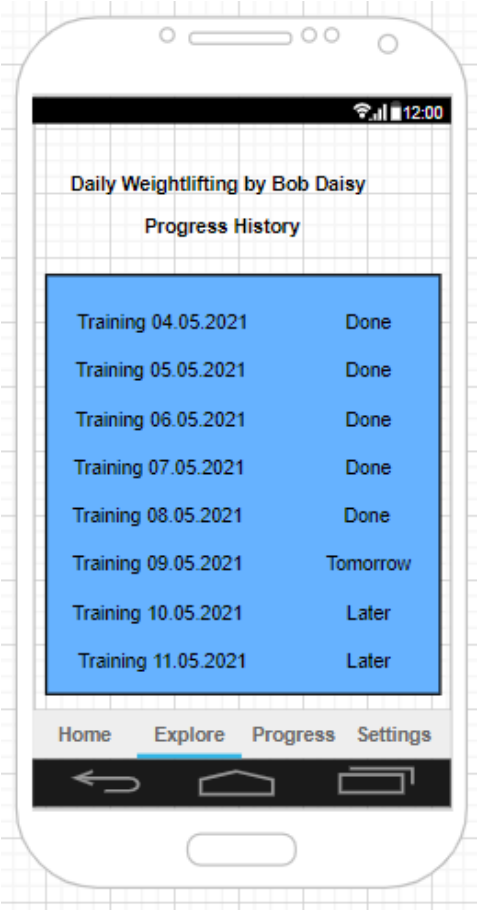
3. He is prompted to the page of his scheduled goal "Daily Weightlifting by Bob Daisy". He has done his daily routine, so he clicks on "Mark Done".
4. He is shown a pop up page in which he can see his past effort, today's work, and future.





5. He clicks on Done instead of Undone.
6. Then the interface refreshes and shows that today's workout routine is "Done" like last 4 days.





7. He sees his achievement and closes his app, and continues on his energetic day.

6.3.5-Scenario 5

6.3.5.1-User Persona

- **Photo:**
- **Name:** Yolanda Graver
- **Age:** 35
- **Job:** Baker
- **Interest:** Baking, Boxing, Cleaning

6.3.5.2-Preconditions

- Yolanda is already signed up and logged in the android app.

6.3.5.3-Goals

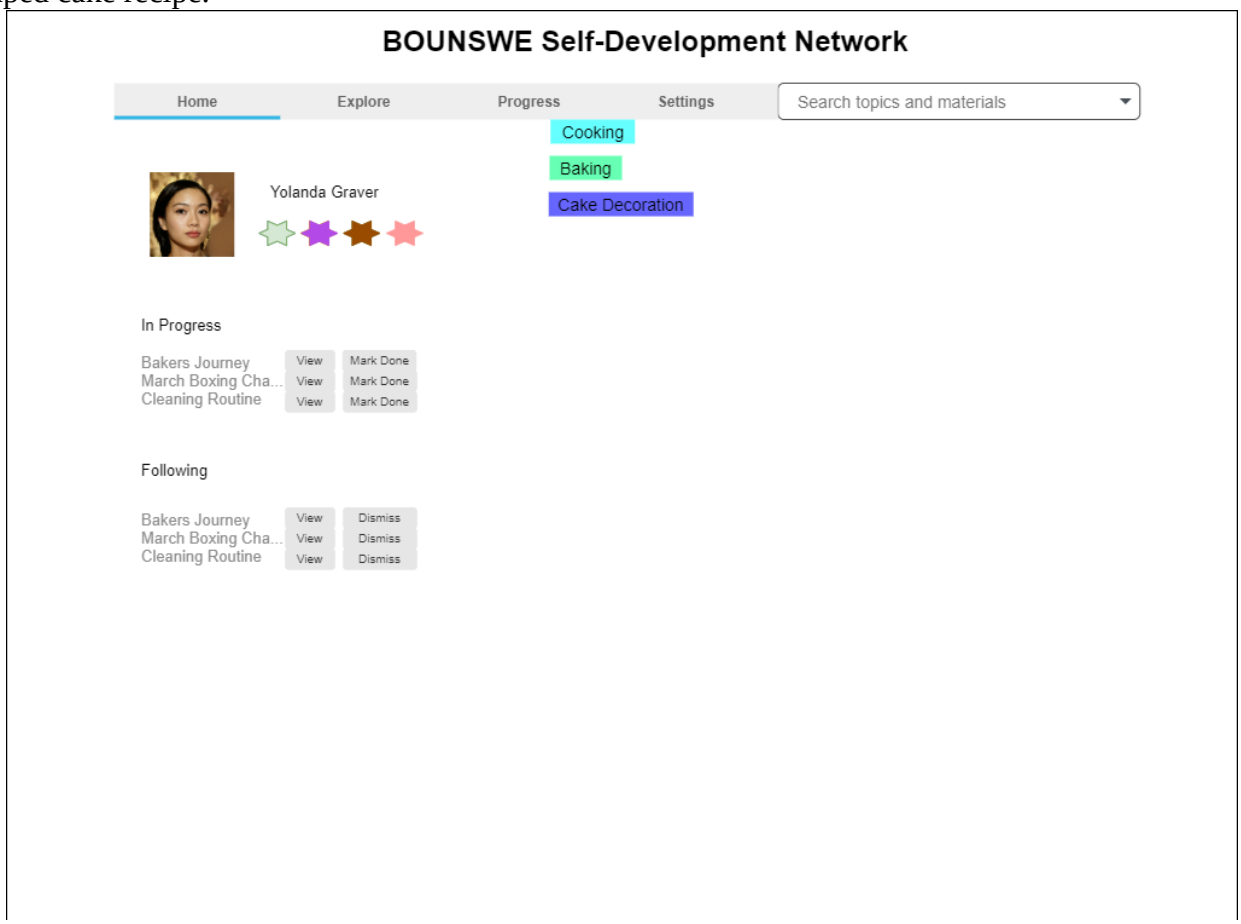
- She wants to create a new resource including a path.

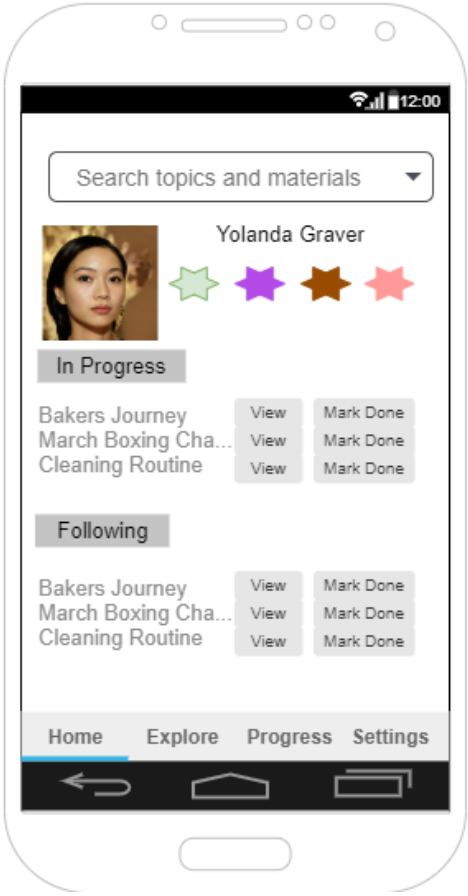
6.3.5.4-Acceptance Criteria

- **(Req.1.1.2.)** The System shall provide its users access to it by means of specialized accounts.
- **(Req.1.2.6.)** The users shall be able to reliably record and edit some goals they determine as a set of material-deadline pairs.
- **(Req.1.2.7.)** The users should be able to reliably record some topics they want to improve on.
- **(Req.2.1.1.)** An Android Application and a Web Application shall be implemented as instances of the Interface.

6.3.5.5-Actions & Mockups

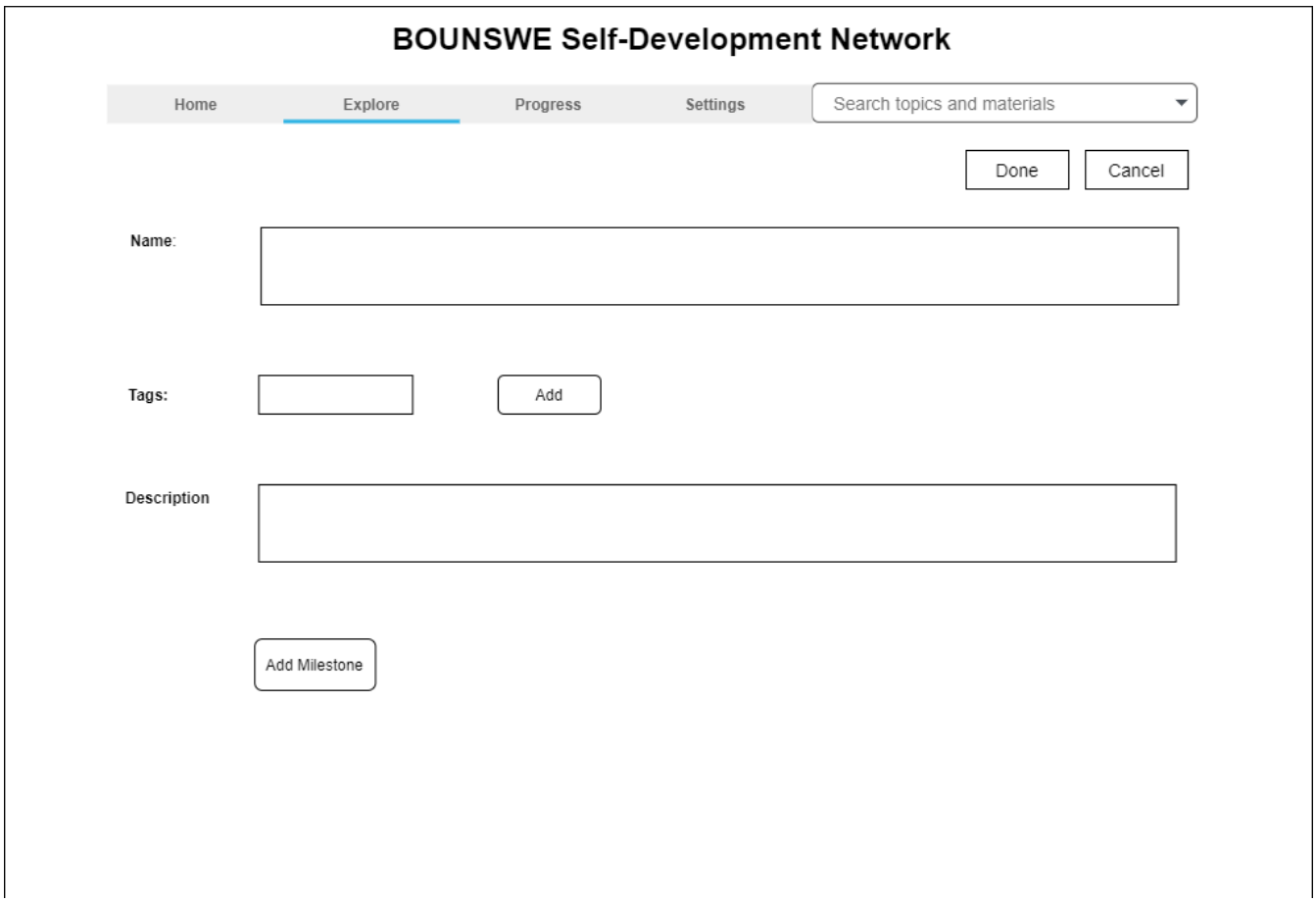
1. Yolanda opens his app and home page appears. She wants to create a new resource to share her mouse shaped cake recipe.

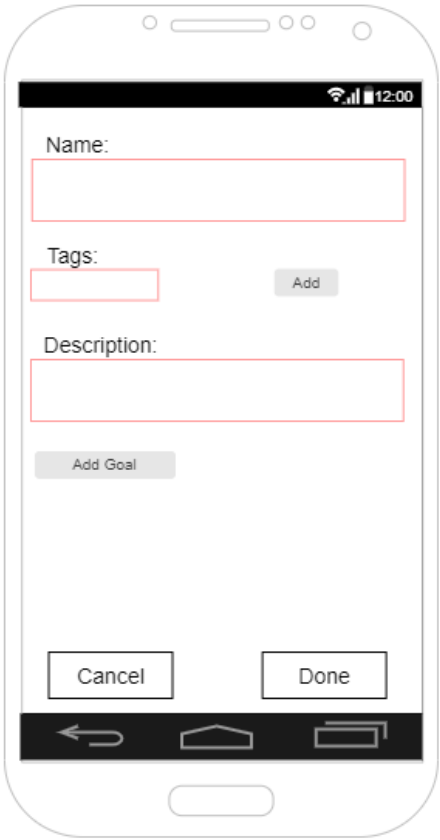




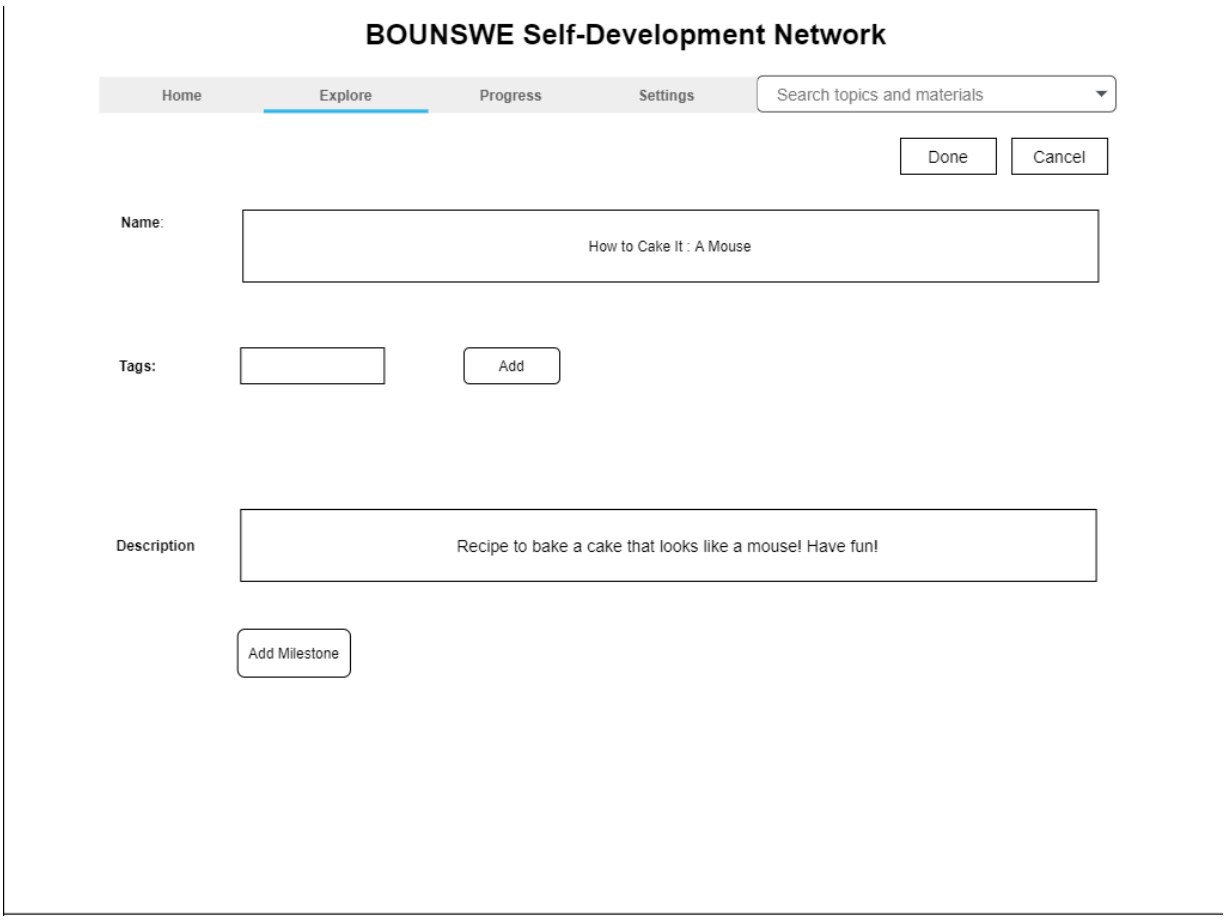
2. She goes to explore page. Then she clicks on the "Create" button.

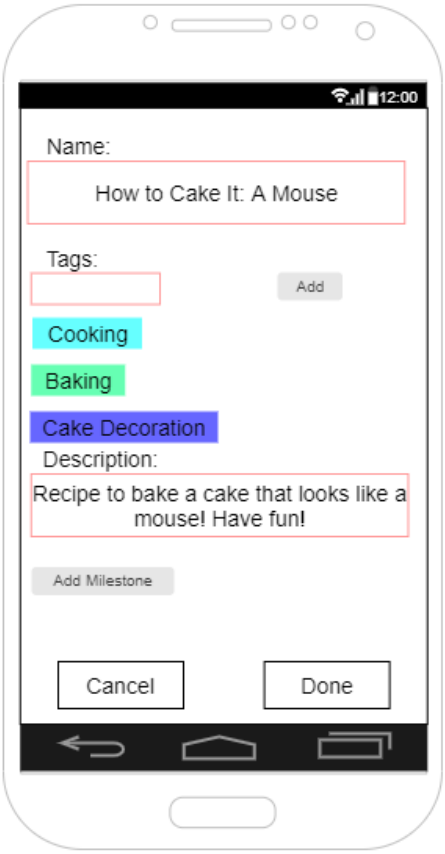
3. Edit page appears.



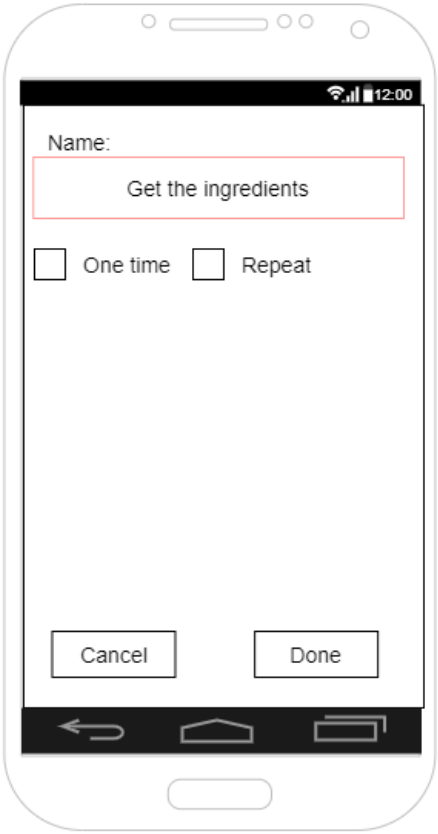


4. She names the resource , adds tags and description. Then she clicks on to the "Add Milestone" button.

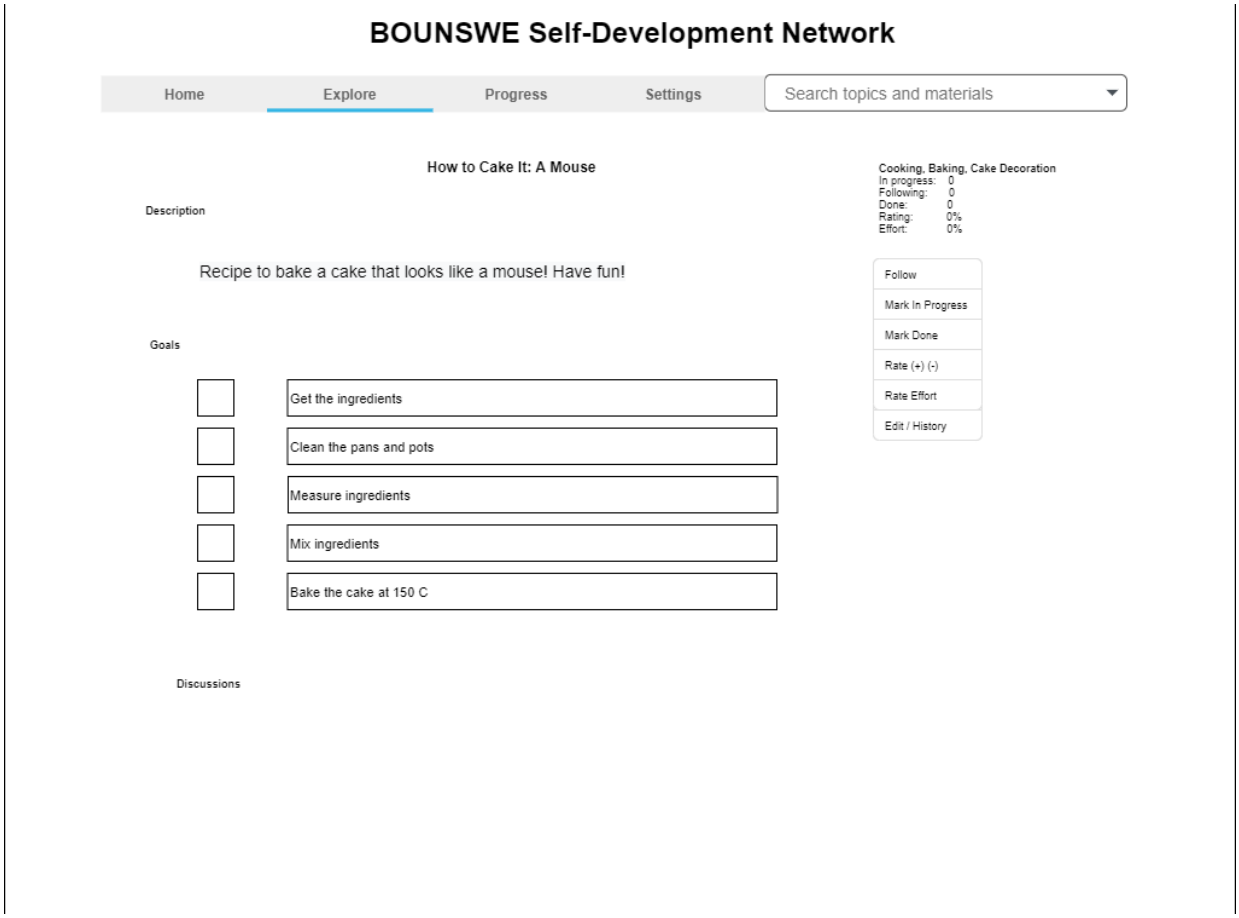




5. She adds the new milestone, sets it recurring type and clicks done.



6. Final resource page is as shown below.



6.3.6-Scenario 6

6.3.6.1-User Persona

- **Photo:**
- **Name:** John Jones
- **Age:** 50
- **Job:** Teacher
- **Interest:** Dance, Group Activities

6.3.6.2-Preconditions

- John is already signed up and logged in to the android and web app.
- The app is started at in-progress goals.

6.3.6.3-Goals

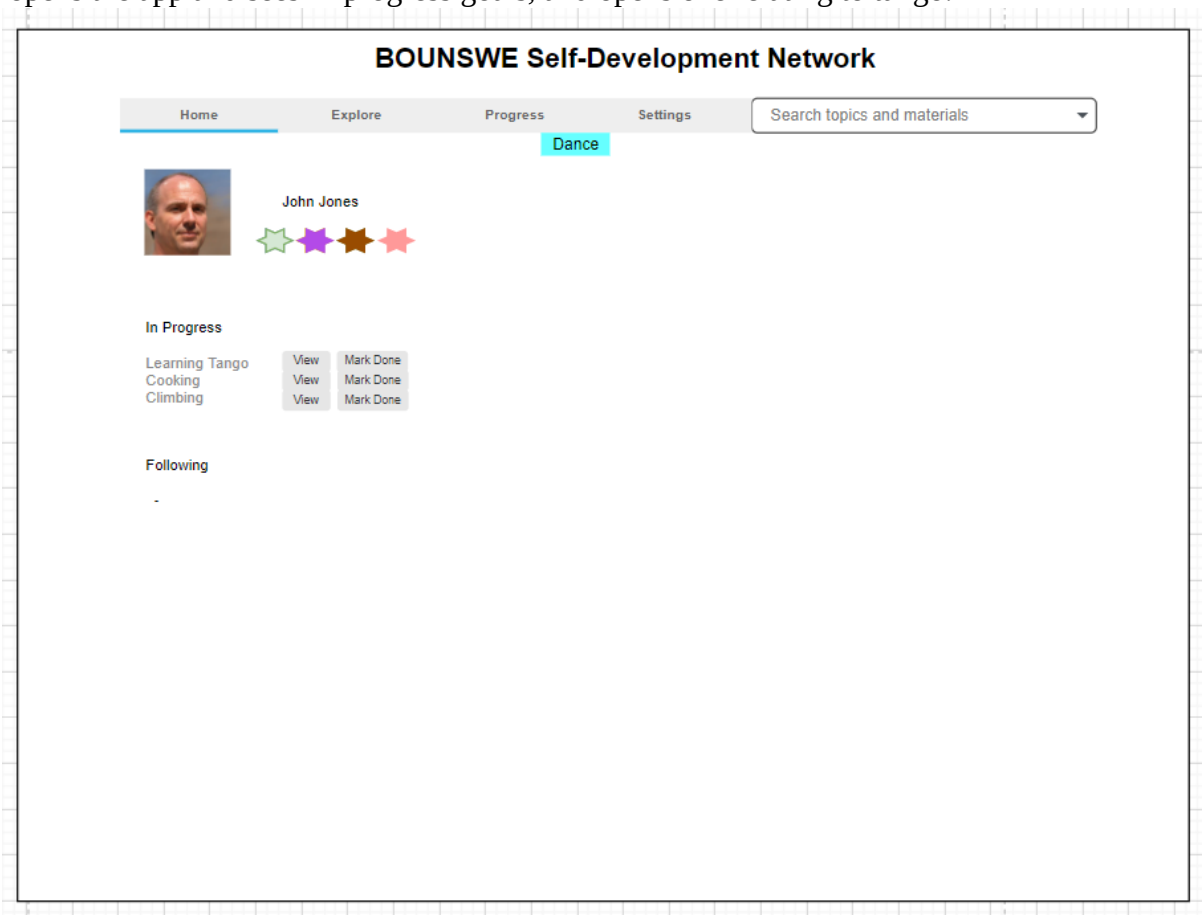
- John tries to learn dancing. He wants his friend to learn dancing, so they can dance after the pandemic together.

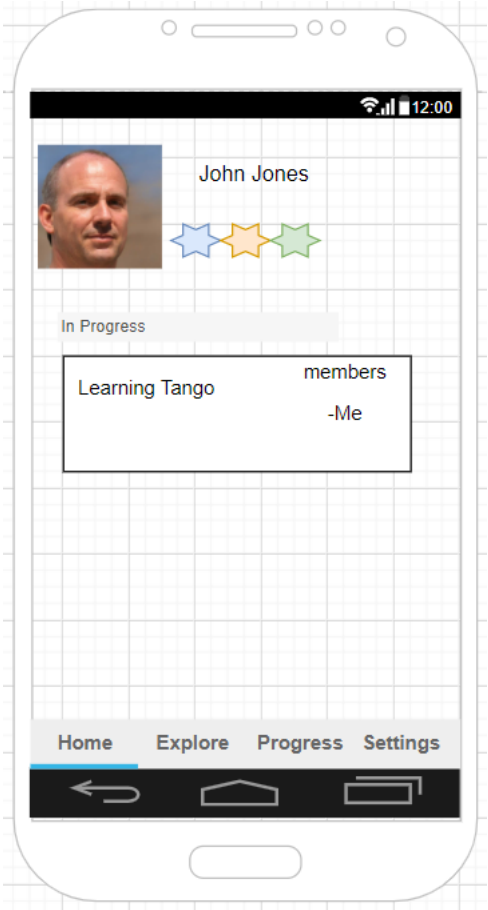
6.3.6.4-Acceptance Criteria

- **(Req.1.2.8.)** The users *shall* be able to work on their determined goals as a group.
- **(Req.1.3.4.)** The users *shall* be able to search for other users.
- **(Req.2.1.1.)** An Android Application and a Web Application shall be implemented as instances of the Interface.

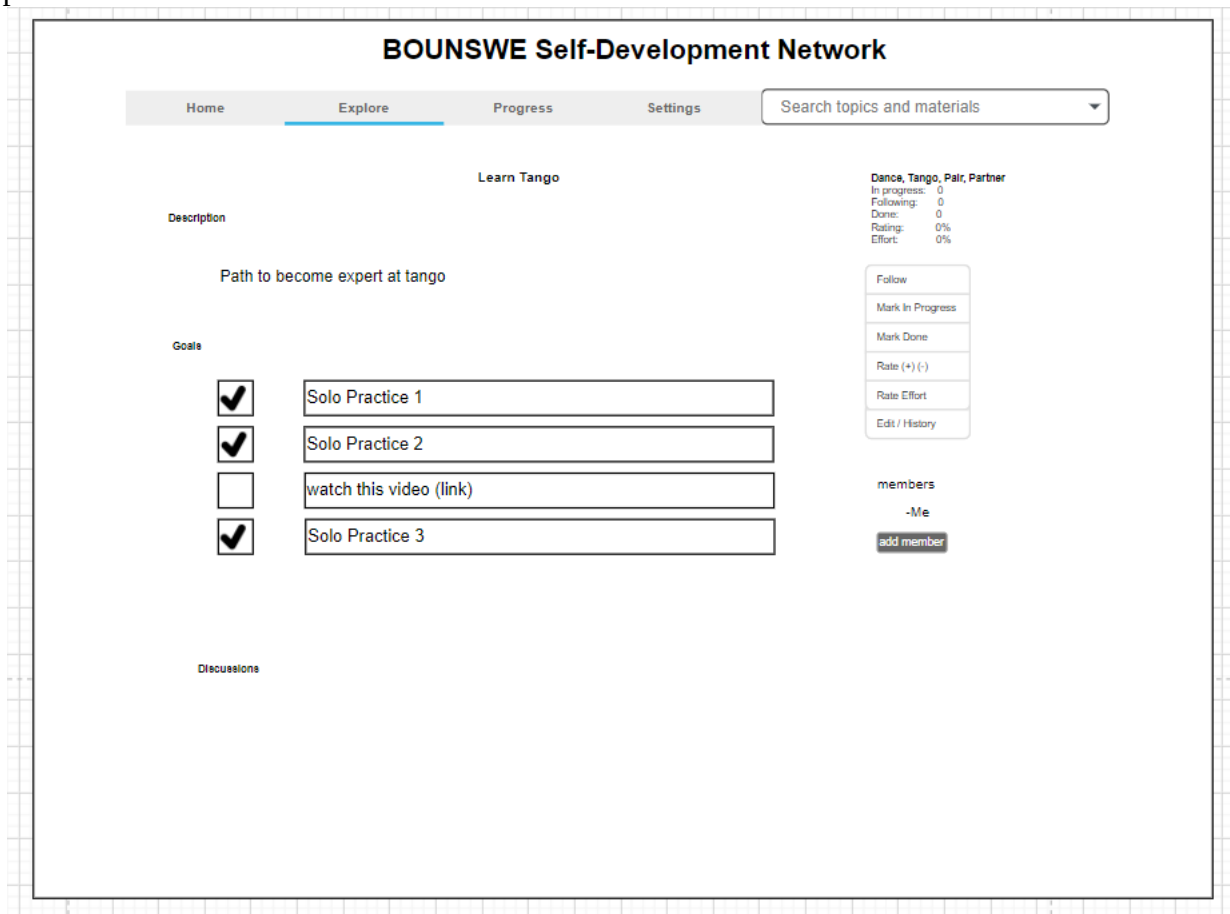
6.3.6.5-Actions & Mockups

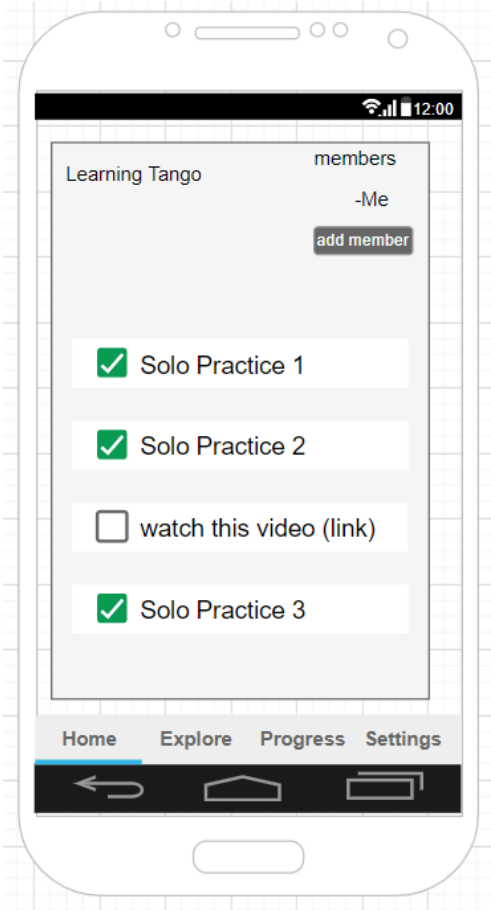
1. John opens the app and sees in-progress goals, and opens one relating to tango.



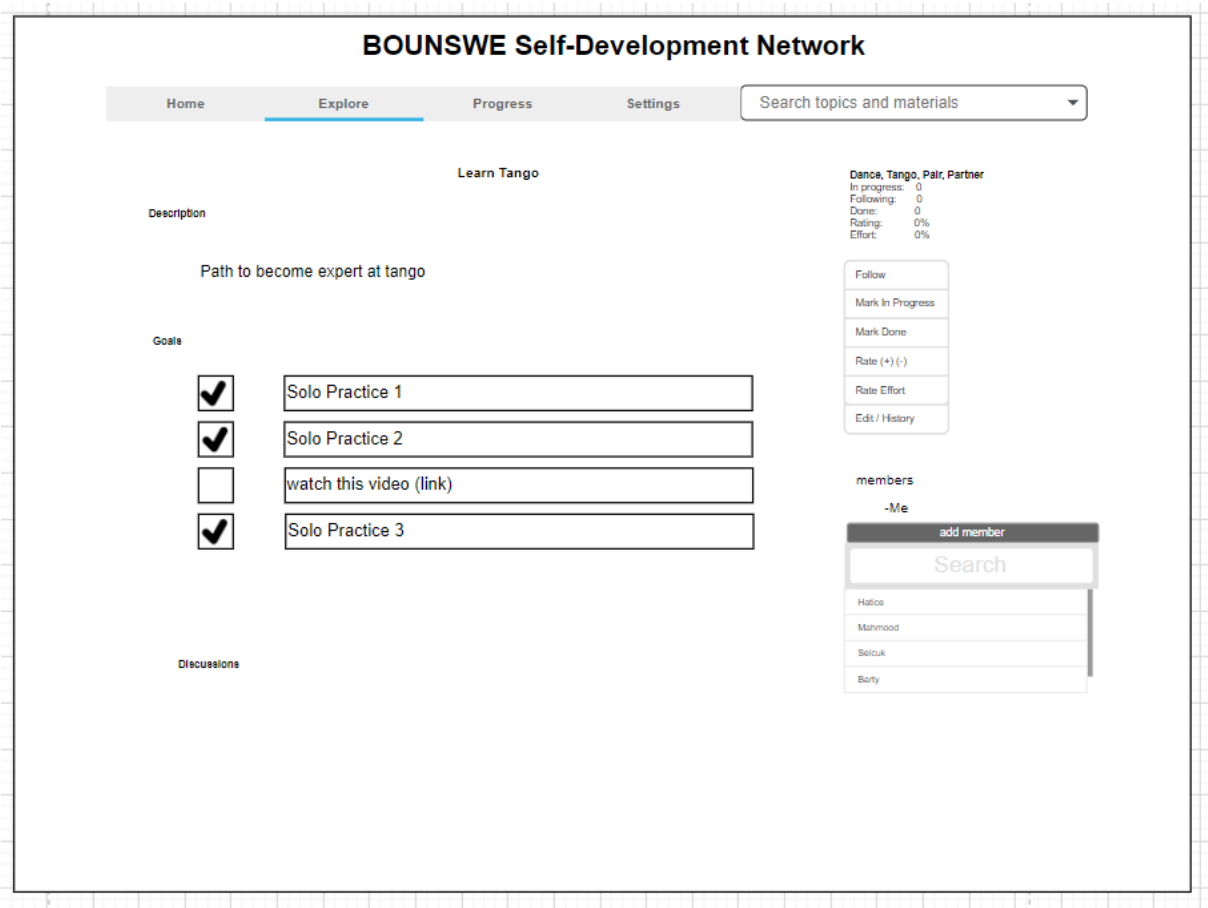


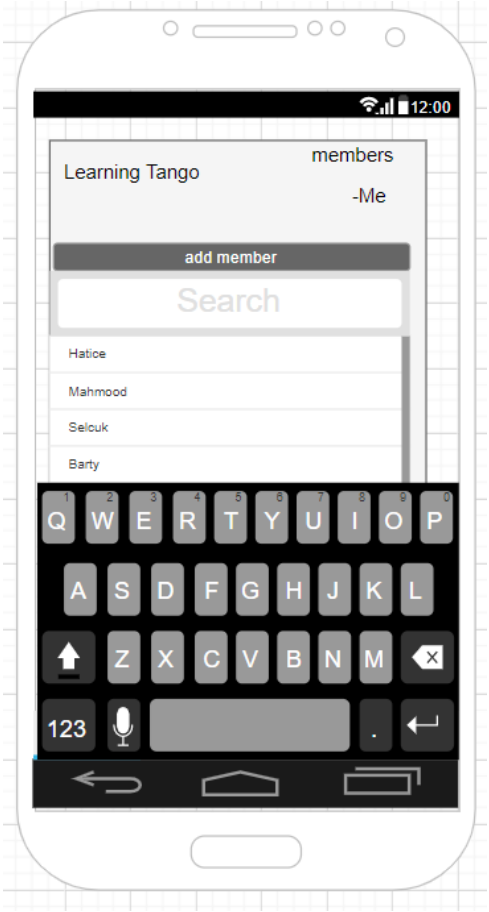
2. He presses add member button to add his friend Hatice



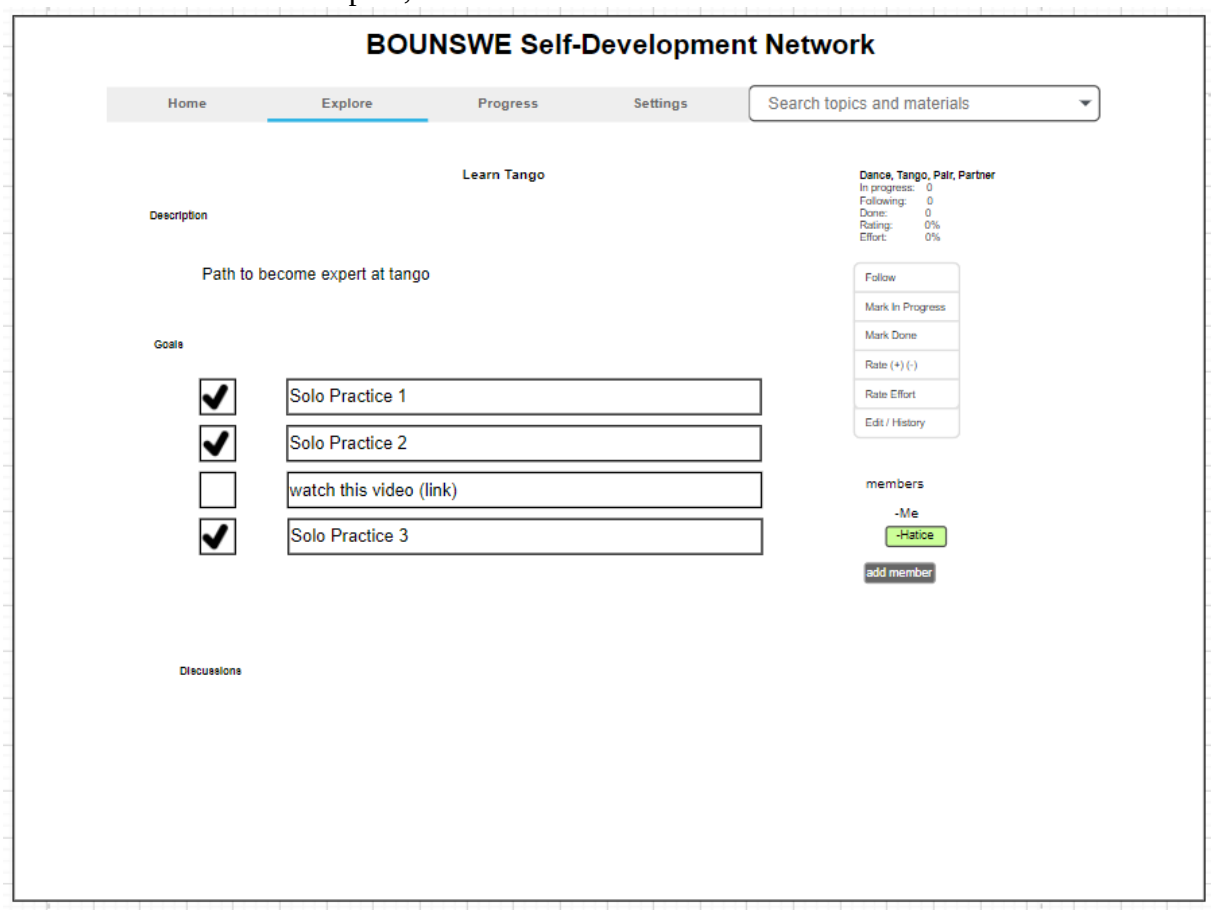


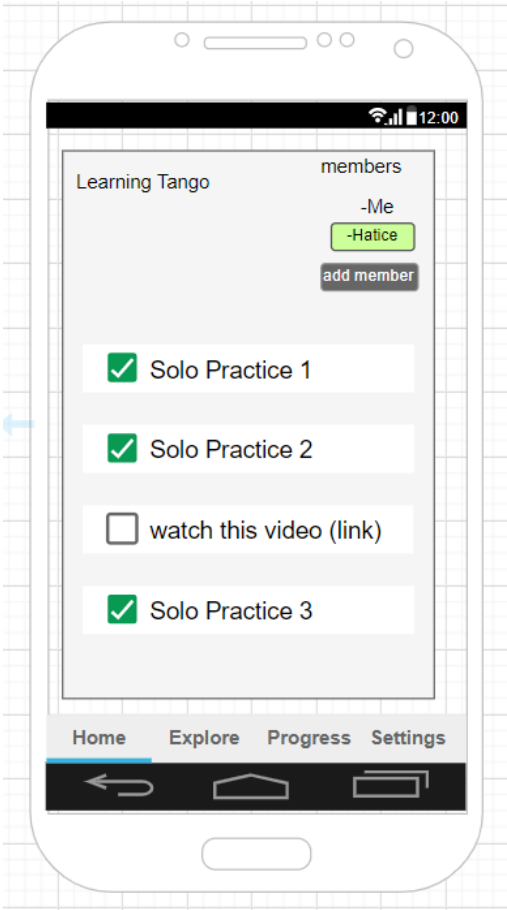
3. He searches, finds the friend and selects it.



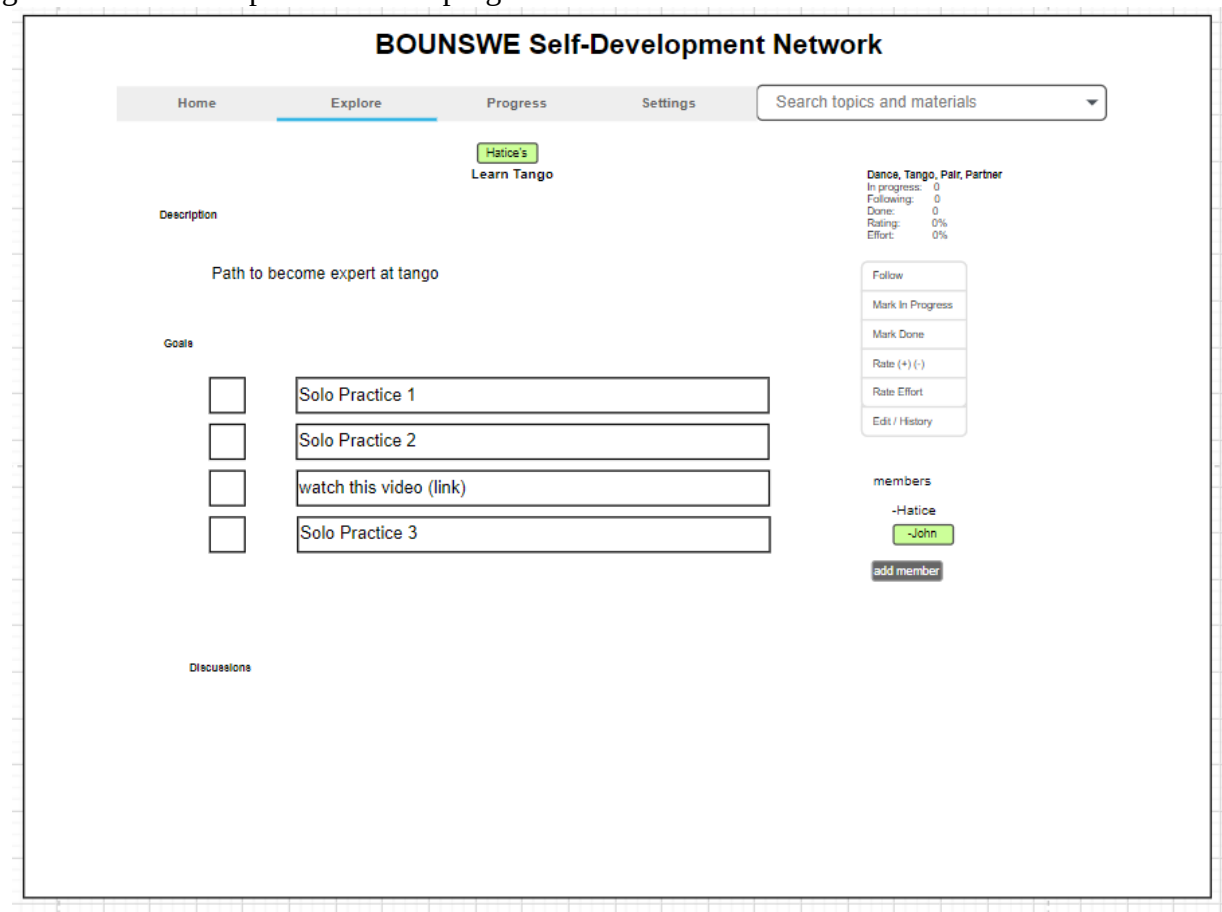


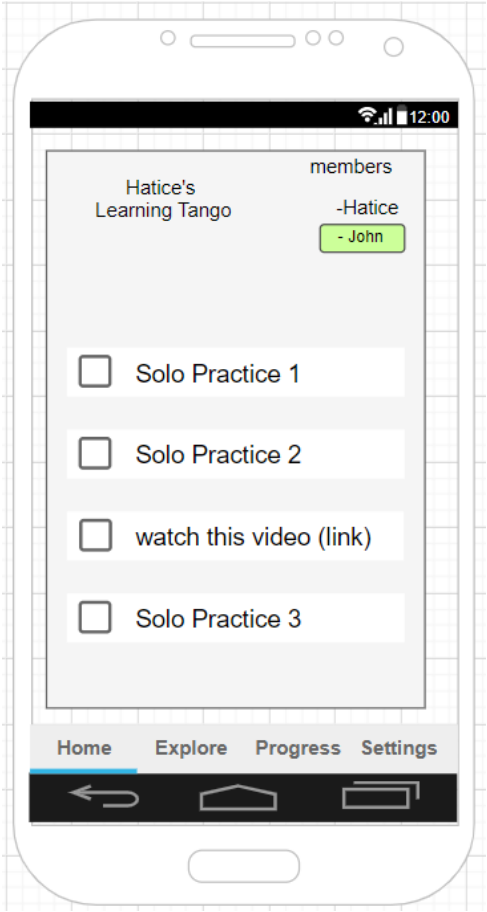
4. The new member added to this path, he can see members now.





5. He goes to his friend's path to see her progress





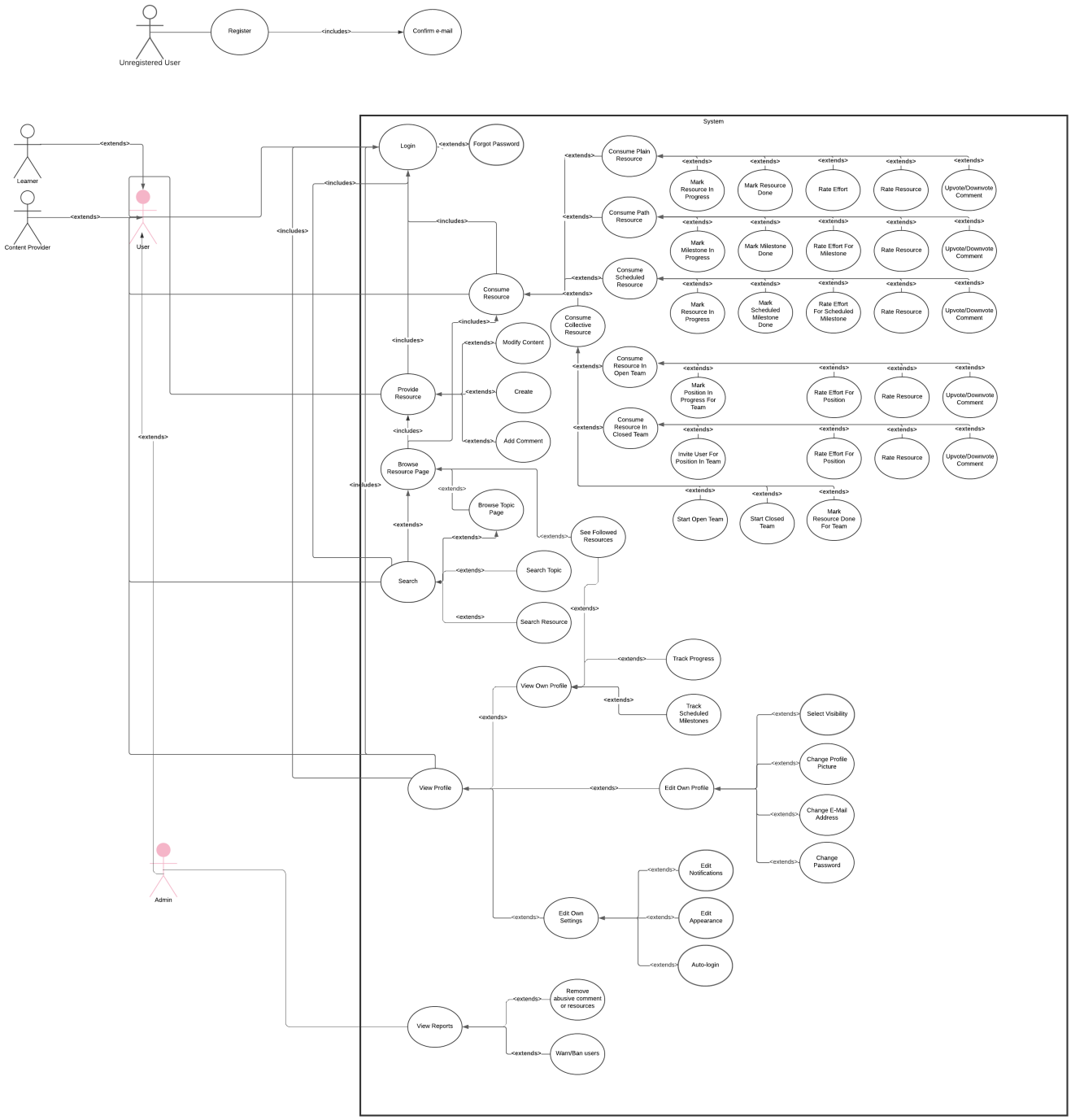
6.4-Software Design Documents

This section is dedicated to UML diagrams describing our system in a formal manner. They include a use case diagram, a class diagram and several sequence diagrams.

It should be obvious by now that the main logical entity in the project is the Resource. These resources has multiple subclasses implementing various functionalities. There are also semantic labels describing and logically linking these resources.

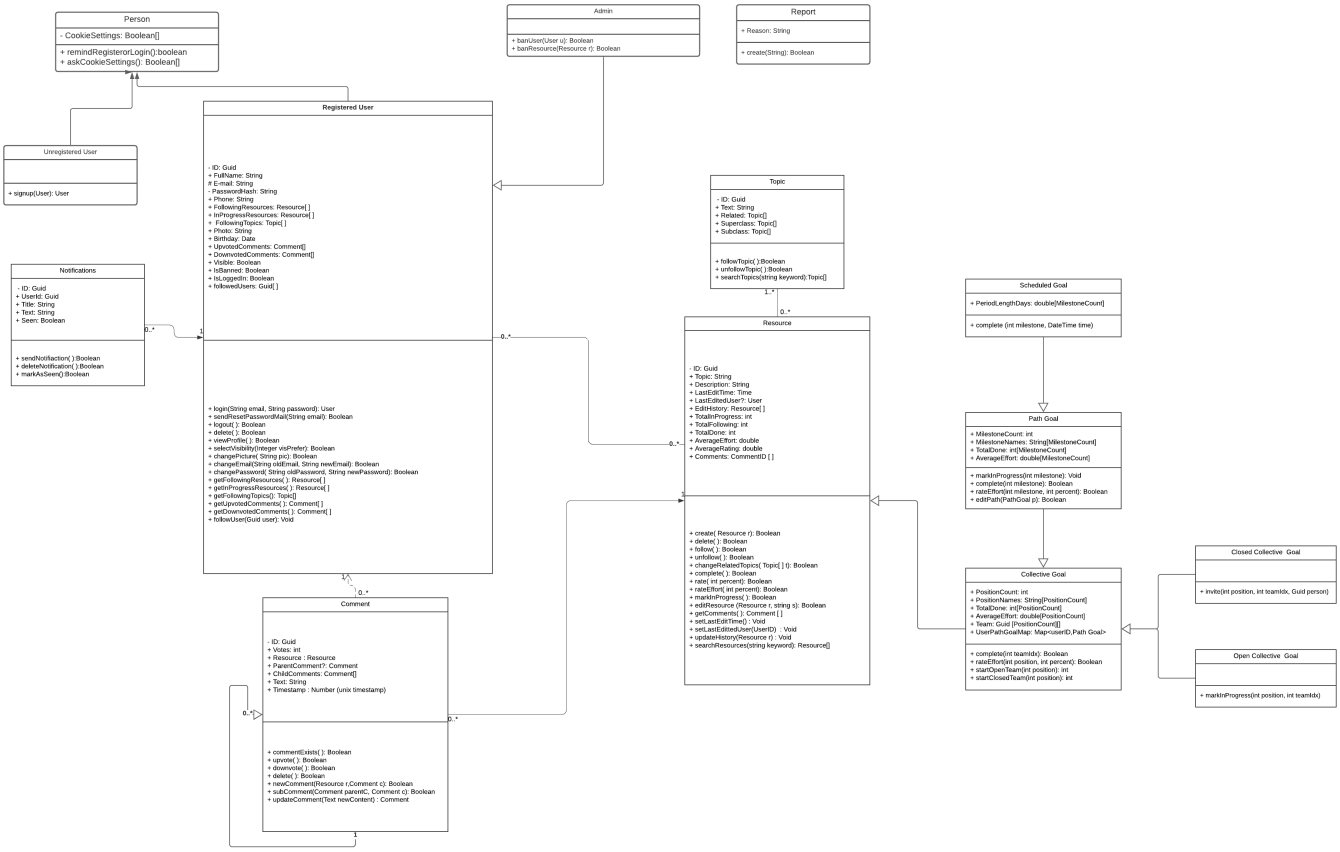
6.4.1-UML Use Case Diagram

This use case diagram explains in what ways can people interact with our system. It is generally composed of either providing resources or using them, besides auxiliary use cases like registration and admin (see Project Glossary) functionality. Here is the link to diagram.



6.4.2-UML Class Diagram

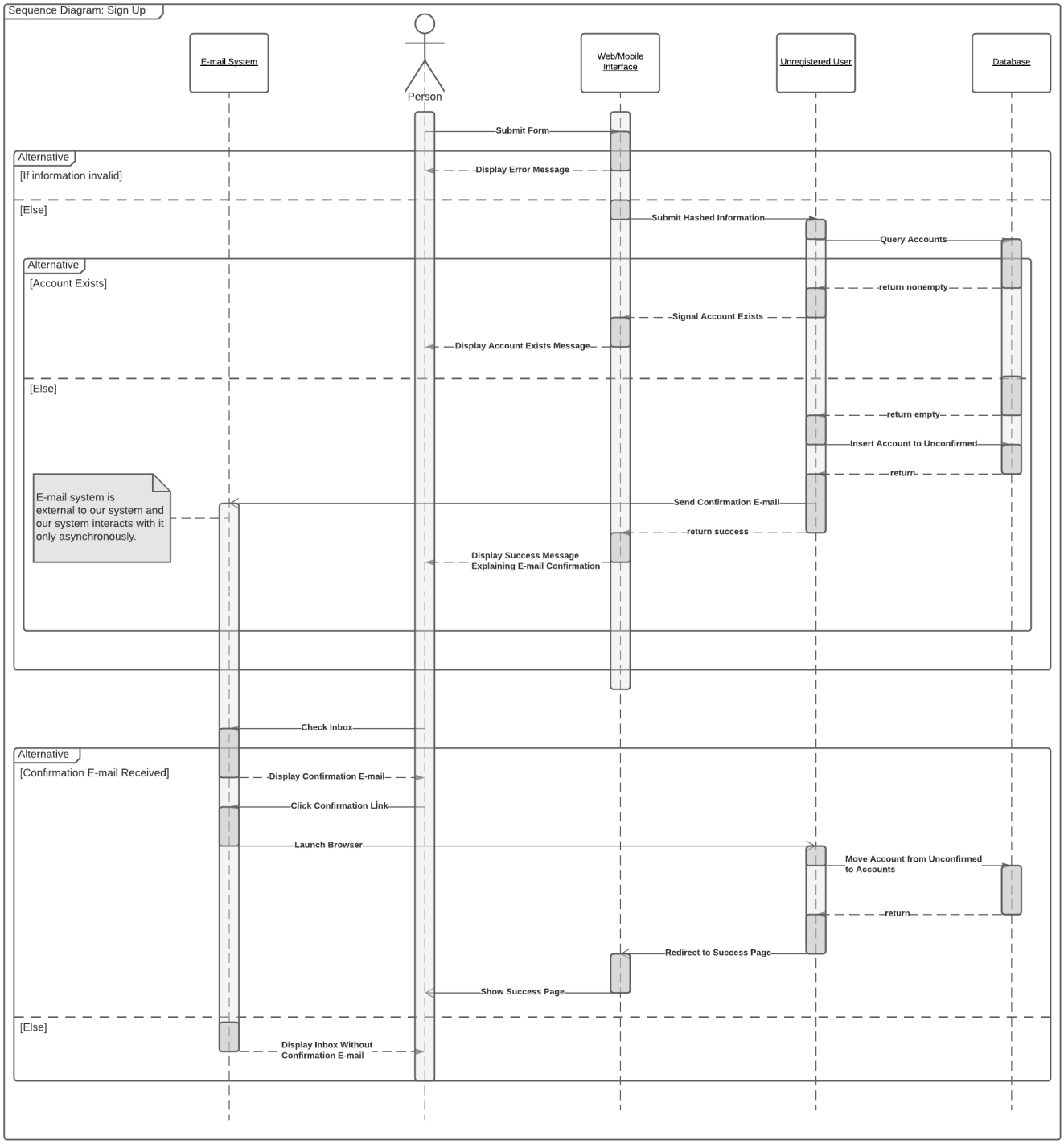
This class diagram helps us to see not just fields and functions of the classes, but also inheritance and life cycle relationships between the classes. You can check Project Glossary for project specific terms. Here is the link to diagram.



6.4.3-UML Sequence Diagrams

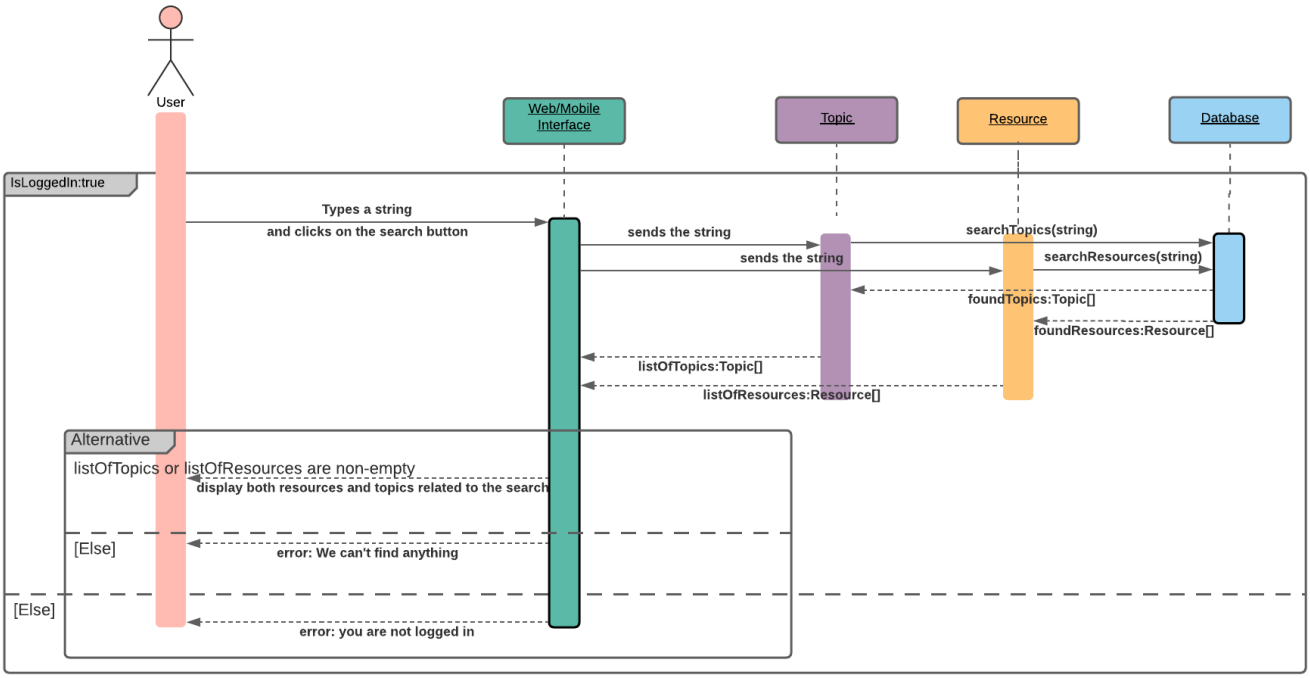
6.4.3.1-Sign Up

Depicts a person accessing the system and effectively calling the method signup in the class diagram. This is handled in the backend by the Unregistered User class. Parts of the sequence related to e-mail verification is external to our system. Link to diagram.



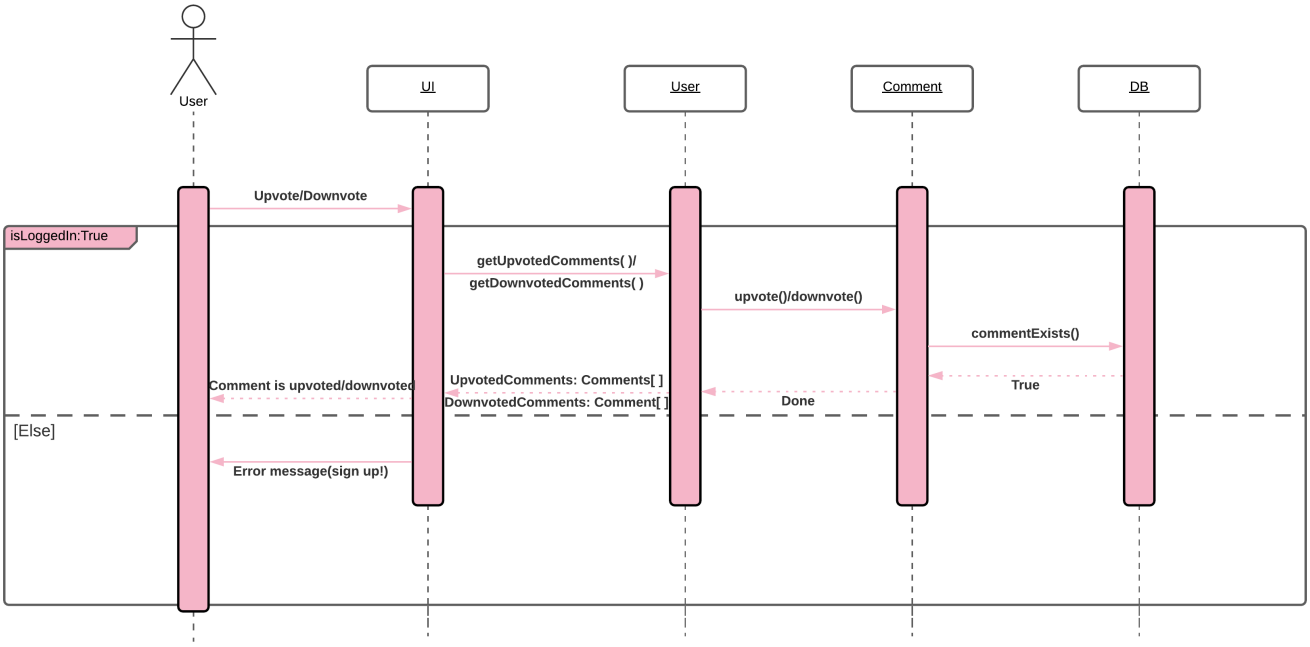
6.4.3.2-Search

This sequence describes how search function of our system will work. Resource and Topic classes of system infrastructure will handle this process using their related functions. Link to diagram.



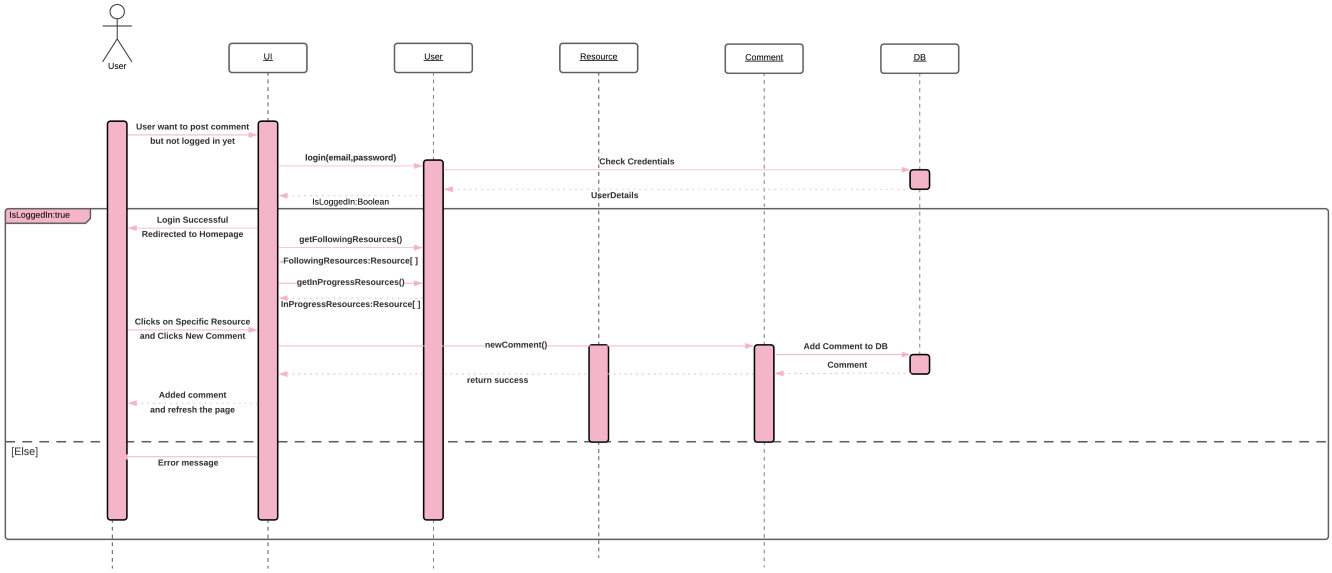
6.4.3.3-Upvote/Downvote

This sequence diagram demonstrates the functionality of upvote/downvote comments which are written by other users under the resources or other comments. By this functionality, the most useful comments could arise among them. This helps the community driven property of our platform. Link to diagram.



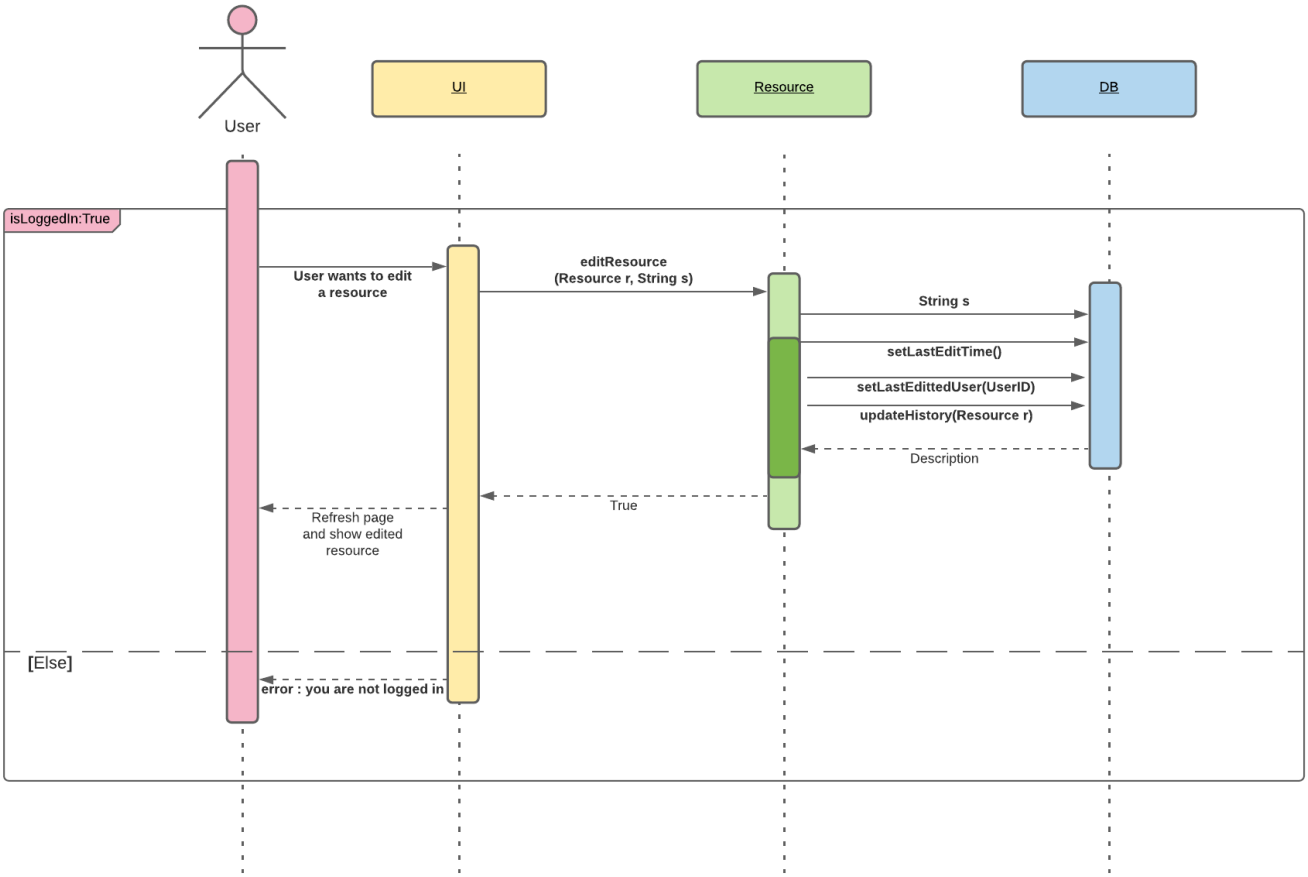
6.4.3.4-Post a Comment

This sequence diagram helps us to see the steps from login to post a comment. Link to diagram.



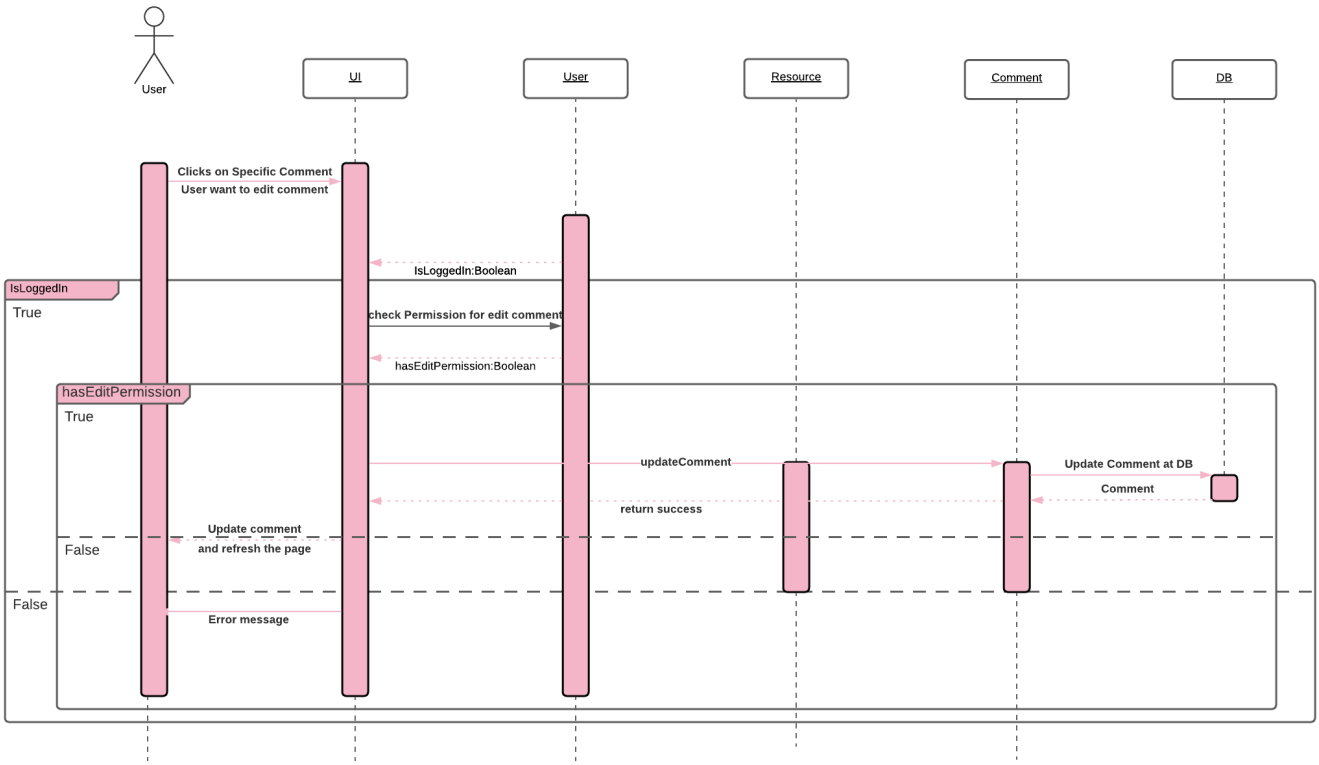
6.4.3.5-Edit Resource

Edit Resource is the function that enables users to change the content of resources. In this sequence diagram it is shown as a process between user, UI, Resource class and database. Link to diagram.



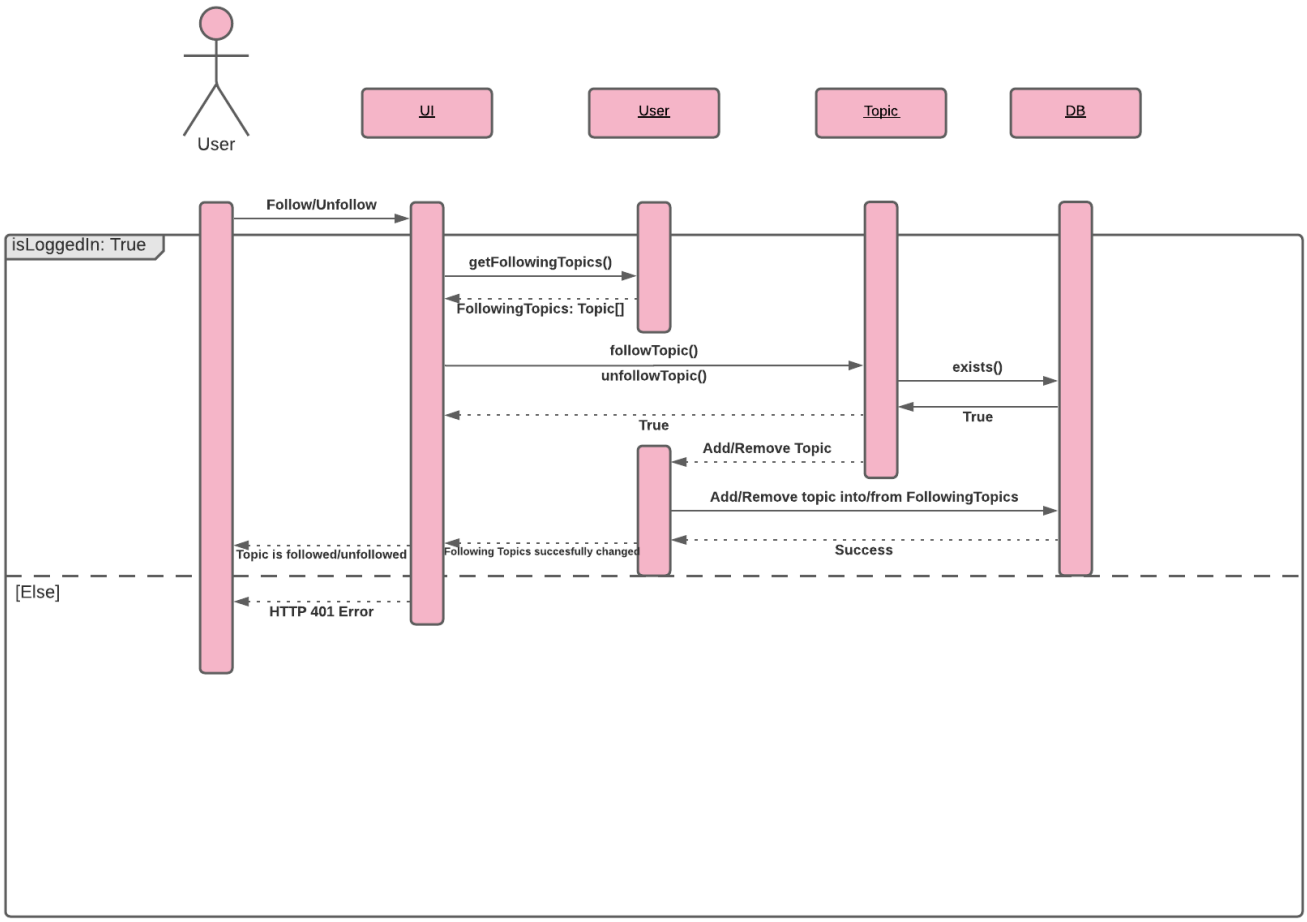
6.4.3.6-Edit Comment

This diagram shows the infrastructure flow of editing comment. Link to diagram.



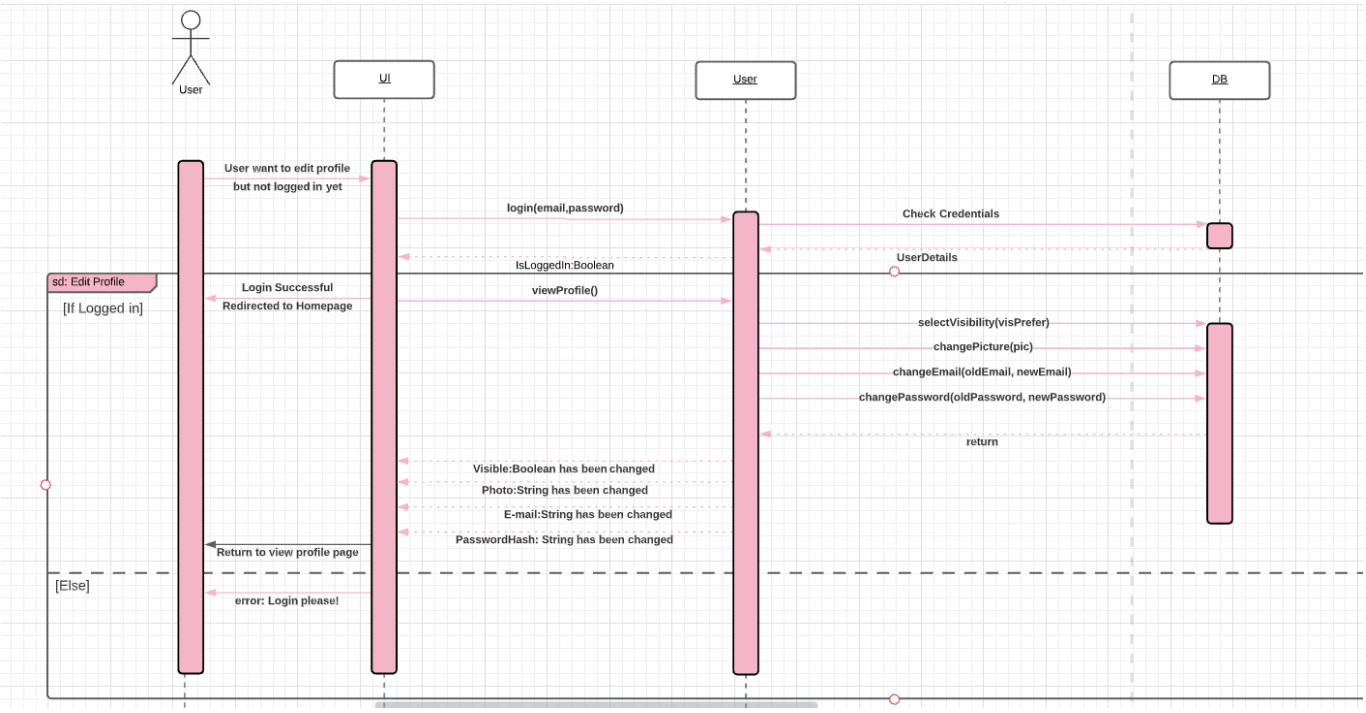
6.4.3.7-Follow/Unfollow Topic

This sequence diagram demonstrates the steps of following/unfollowing a topic. UI, user, topic class, database and their related functions will handle the process. Link to diagram.



6.4.3.8-Edit Profile

This sequence diagram demonstrates how a user can make changes in their account and profile, in terms of visibility of the account, e-mail address, password, and profile picture. Link to diagram.



6.5-Project Plan and RAM

6.5.1-Project Plan

Project plan document shows how this project will be executed step-by-step.

Pod file (Project Libre) can be found here

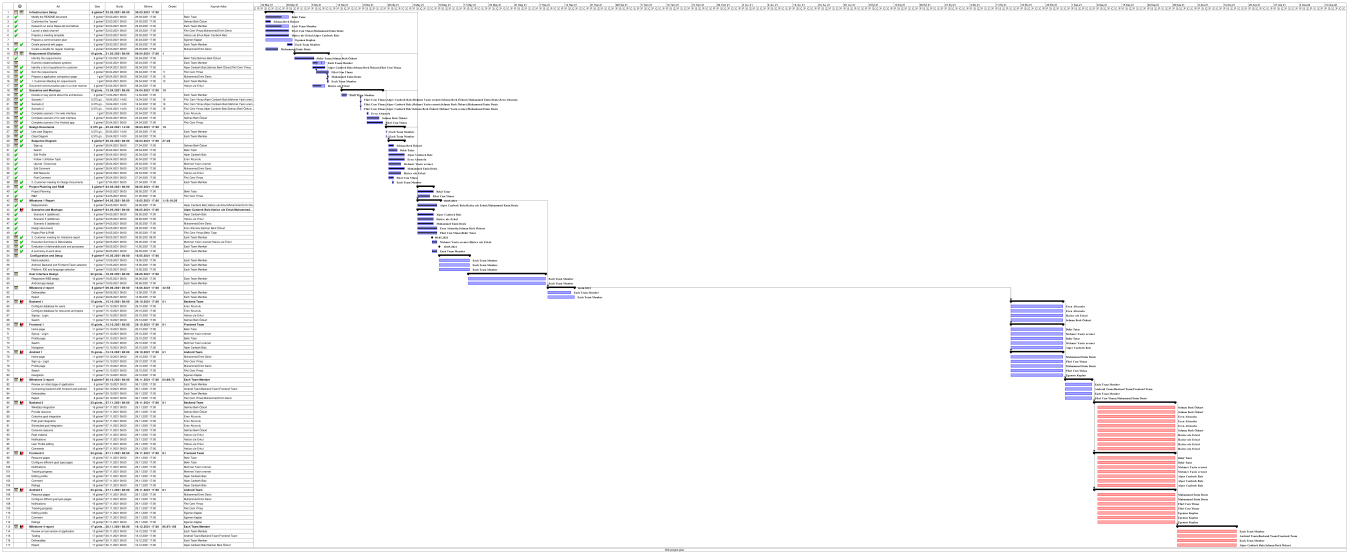
PDF file can be found here

		Name	Duration	Start	Finish	Predecessors	Resource Names
1		**Infrastructure Setup**	**6 days?**	**3/23/21 8:00 AM**	**3/30/21 5:00 PM**		
2		Modify the README document	5 days?	3/23/21 8:00 AM	3/29/21 5:00 PM		Bekir Tatar
3		Customize the “issues”	2 days?	3/23/21 8:00 AM	3/24/21 5:00 PM		Selman Berk Özkurt
4		Research on some Repos,Git and Github	5 days?	3/23/21 8:00 AM	3/29/21 5:00 PM		Each Team Member
5		Launch a slack channel	7 days?	3/23/21 8:00 AM	3/29/21 5:00 PM		Fikri Cem Ylmaz;Muhammed Emin Deniz
6		Prepare a meeting template	7 days?	3/23/21 8:00 AM	3/29/21 5:00 PM		Hatice ule Erkul;Alper Canberk Balc
7		Prepare a communication plan	6 days?	3/23/21 8:00 AM	3/30/21 5:00 PM		Egemen Kaplan
8		Create personal wiki pages	2 days?	3/29/21 8:00 AM	3/30/21 5:00 PM		Each Team Member
9		Create a doodle for regular meetings	4 days?	3/23/21 8:00 AM	3/26/21 5:00 PM		Muhammed Emin Deniz
10		**Reqiurement Elicitation**	**10 days?**	**3/31/21 8:00 AM**	**4/9/21 5:00 PM**	**1**	
11		Identify the reqiurements	6 days?	3/31/21 8:00 AM	4/5/21 5:00 PM		Bekir Tatar;Selman Berk Özkurt
12		Examine related software systems	4 days?	4/4/21 8:00 AM	4/8/21 5:00 PM		Each Team Member
13		Identify a list of questions for customer	5 days?	4/4/21 8:00 AM	4/8/21 5:00 PM		Alper Canberk Balc;Selman Berk Özkurt;Fikri Cem Ylmaz
14		Sort the reqiurements	4 days?	4/6/21 8:00 AM	4/9/21 5:00 PM	11	Fikri Cem Ylmaz
15		Prepare a application comparison page	1 day?	4/9/21 8:00 AM	4/9/21 5:00 PM	12	Muhammed Emin Deniz
16		1. Customer Meeting for reqiurements	1 day?	4/9/21 8:00 AM	4/9/21 5:00 PM	13	Each Team Member
17		Document communication plan in a nicer manner	4 days?	4/4/21 8:00 AM	4/8/21 5:00 PM		Hatice ule Erkul
18		**Scenarios and Mockups**	**12 days?**	**4/13/21 8:00 AM**	**4/24/21 5:00 PM**	**10**	
19		Decide on key points about the architecture	2 days?	4/13/21 8:00 AM	4/14/21 5:00 PM		Each Team Member
20		Scenario 1	0.375 da...	4/18/21 2:00 PM	4/18/21 5:00 PM	19	Fikri Cem Ylmaz;Alper Canberk Balc;Mehmet Yasin ere...
21		Scenario 2	0.375 da...	4/18/21 2:00 PM	4/18/21 5:00 PM	19	Fikri Cem Ylmaz;Alper Canberk Balc;Mehmet Yasin ere...
22		Scenario 3	0.375 da...	4/18/21 2:00 PM	4/18/21 5:00 PM	19	Fikri Cem Ylmaz;Alper Canberk Balc;Selman Berk Özkurt...
23		Complete scenario 1 for web interface	1 day?	4/20/21 8:00 AM	4/20/21 5:00 PM		Eren Altunolu
24		Complete scenario 2 for web interface	4 days?	4/20/21 8:00 AM	4/23/21 5:00 PM		Selman Berk Özkurt
25		Complete scenario 3 for Android app	5 days?	4/20/21 8:00 AM	4/24/21 5:00 PM		Fikri Cem Ylmaz
26		**Design Documents**	**5.375 da...**	**4/25/21 2:00 PM**	**4/30/21 5:00 PM**	**18**	
27		Use case Diagram	0.375 da...	4/25/21 2:00 PM	4/25/21 5:00 PM		Each Team Member
28		Class Diagram	0.375 da...	4/25/21 2:00 PM	4/25/21 5:00 PM		Each Team Member
29		**Sequence Diagram**	**5 days?**	**4/26/21 8:00 AM**	**4/30/21 5:00 PM**	**27;28**	
30		Sign up	2 days?	4/26/21 8:00 AM	4/27/21 5:00 PM		Selman Berk Özkurt
31		Search	3 days?	4/26/21 8:00 AM	4/28/21 5:00 PM		Bekir Tatar
32		Edit Profile	5 days?	4/26/21 8:00 AM	4/30/21 5:00 PM		Alper Canberk Balc
33		Follow / Unfollow Topic	5 days?	4/26/21 8:00 AM	4/30/21 5:00 PM		Eren Altunolu
34		Upvote / Downvote	4 days?	4/26/21 8:00 AM	4/29/21 5:00 PM		Mehmet Yasin eremet

		Name	Duration	Start	Finish	Predecessors	Resource Names
35		Edit Comment	5 days?	4/26/21 8:00 AM	4/30/21 5:00 PM		Muhammed Emin Deniz
36		Edit Resource	4 days?	4/26/21 8:00 AM	4/29/21 5:00 PM		Hatice ule Erkul
37		Post Comment	2 days?	4/26/21 8:00 AM	4/27/21 5:00 PM		Fikri Cem Ylmaz
38		2. Customer meeting for Design Documents	1 day?	4/27/21 8:00 AM	4/27/21 5:00 PM		Each Team Member
39		**Project Planning and RAM**	**5 days?**	**5/4/21 8:00 AM**	**5/8/21 5:00 PM**		
40		Project Planning	5 days?	5/4/21 8:00 AM	5/8/21 5:00 PM		Bekir Tatar
41		RAM	4 days?	5/4/21 8:00 AM	5/7/21 5:00 PM		Fikri Cem Ylmaz
42		**Milestone 1 Report**	**7 days?**	**5/4/21 8:00 AM**	**5/10/21 5:00 PM**	**1;10;18;26**	
43		Reqiurements	6 days?	5/4/21 8:00 AM	5/9/21 5:00 PM		Alper Canberk Balc;Hatice ule Erkul;Muhammed Emin D...
44		**Scenarios and Mockups**	**5 days?**	**5/4/21 8:00 AM**	**5/8/21 5:00 PM**		**Alper Canberk Balc;Hatice ule Erkul;Muhamme...**
45		Scenario 4 (additonal)	5 days?	5/4/21 8:00 AM	5/8/21 5:00 PM		Alper Canberk Balc
46		Scenario 5 (additonal)	5 days?	5/4/21 8:00 AM	5/8/21 5:00 PM		Hatice ule Erkul
47		Scenario 6 (additonal)	5 days?	5/4/21 8:00 AM	5/8/21 5:00 PM		Muhammed Emin Deniz
48		Design documents	6 days?	5/4/21 8:00 AM	5/9/21 5:00 PM		Eren Altunolu;Selman Berk Özkurt
49		Project Plan & RAM	6 days?	5/4/21 8:00 AM	5/9/21 5:00 PM		Fikri Cem Ylmaz;Bekir Tatar
50		3. Customer meeting for milestone report	0 days?	5/8/21 8:00 AM	5/8/21 8:00 AM		Each Team Member
51		Executive Summary & Deliverables	2 days?	5/8/21 8:00 AM	5/9/21 5:00 PM		Mehmet Yasin eremet;Hatice ule Erkul
52		Evaluation of delivarable,tools and processes	0 days?	5/8/21 8:00 AM	5/10/21 5:00 PM		Each Team Member
53		A summary of work done	2 days?	5/8/21 8:00 AM	5/9/21 5:00 PM		Each Team Member
54		**Configuration and Setup**	**9 days?**	**5/10/21 8:00 AM**	**5/18/21 5:00 PM**		
55		Name selection	7 days?	5/10/21 8:00 AM	5/18/21 5:00 PM		Each Team Member
56		Android, Backend and Frontend Team selection	7 days?	5/10/21 8:00 AM	5/18/21 5:00 PM		Each Team Member
57		Platform, IDE and language selection	7 days?	5/10/21 8:00 AM	5/18/21 5:00 PM		Each Team Member
58		**User Interface Design**	**22 days?**	**5/18/21 8:00 AM**	**6/8/21 5:00 PM**		
59		Responsive WEB design	16 days?	5/18/21 8:00 AM	6/8/21 5:00 PM		Each Team Member
60		Android app design	16 days?	5/18/21 8:00 AM	6/8/21 5:00 PM		Each Team Member
61		**Milestone 2 report**	**8 days?**	**6/9/21 8:00 AM**	**6/16/21 5:00 PM**	**42;58**	
62		Delivarables	5 days?	6/9/21 8:00 AM	6/15/21 5:00 PM		Each Team Member
63		Report	6 days?	6/9/21 8:00 AM	6/16/21 5:00 PM		Each Team Member
64		**Backend 1**	**15 days?**	**10/15/21 8:00 AM**	**10/29/21 5:00 PM**	**61**	**Backend Team**
65		Configure database for users	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Eren Altunolu
66		Configure database for resources and topics	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Eren Altunolu
67		Signup - Login	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Hatice ule Erkul
68		Search	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Selman Berk Özkurt

		Name	Duration	Start	Finish	Predecessors	Resource Names
69		**Frontend 1**	**15 days?**	**10/15/21 8:00 AM**	**10/29/21 5:00 PM**	**61**	**Frontend Team**
70		Home page	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Bekir Tatar
71		Sgnup - Login	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Mehmet Yasin eremet
72		Profile page	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Bekir Tatar
73		Search	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Mehmet Yasin eremet
74		Navigation	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Alper Canberk Balc
75		**Android 1**	**15 days?**	**10/15/21 8:00 AM**	**10/29/21 5:00 PM**	**61**	**Android Team**
76		Home page	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Muhammed Emin Deniz
77		Sign up - Login	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Fikri Cem Ylmaz
78		Profile page	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Muhammed Emin Deniz
79		Search	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Fikri Cem Ylmaz
80		Navigation	11 days?	10/15/21 8:00 AM	10/29/21 5:00 PM		Egemen Kaplan
81		**Milestone 3 report**	**8 days?**	**10/30/21 8:00 AM**	**11/6/21 5:00 PM**	**64;69;75**	**Each Team Member**
82		Review on initial stage of application	8 days?	10/30/21 8:00 AM	11/6/21 5:00 PM		Each Team Member
83		Connecting backend with frontend and android	8 days?	10/30/21 8:00 AM	11/6/21 5:00 PM		Android Team;Backend Team;Frontend Team
84		Delivarables	8 days?	10/30/21 8:00 AM	11/6/21 5:00 PM		Each Team Member
85		Report	8 days?	10/30/21 8:00 AM	11/6/21 5:00 PM		Fikri Cem Ylmaz;Muhammed Emin Deniz
86		**Backend 2**	**23 days?**	**11/7/21 8:00 AM**	**11/29/21 5:00 PM**	**81**	**Backend Team**
87		Wikidata integration	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Selman Berk Özkurt
88		Provide resource	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Selman Berk Özkurt
89		Colective goal integration	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Eren Altunolu
90		Path goal integration	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Eren Altunolu
91		Scheduled goal integration	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Eren Altunolu
92		Consume resource	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Selman Berk Özkurt
93		Rate material	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Hatice ule Erkul
94		Notifications	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Hatice ule Erkul
95		User Profile editing	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Hatice ule Erkul
96		Comments	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Hatice ule Erkul
97		**Frontend 2**	**23 days?**	**11/7/21 8:00 AM**	**11/29/21 5:00 PM**	**81**	**Frontend Team**
98		Resource pages	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Bekir Tatar
99		Configure different goal type pages	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Bekir Tatar
100		Notifications	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Mehmet Yasin eremet
101		Tracking progress	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Mehmet Yasin eremet
102		Editing profile	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Alper Canberk Balc

		Name	Duration	Start	Finish	Predecessors	Resource Names
103		Comment	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Alper Canberk Balc
104		Ratings	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Alper Canberk Balc
105		**Android 2**	**23 days?**	**11/7/21 8:00 AM**	**11/29/21 5:00 PM**	**81**	**Android Team**
106		Resource pages	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Muhammed Emin Deniz
107		Configure diffrent goal type pages	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Muhammed Emin Deniz
108		Notifications	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Fikri Cem Ylmaz
109		Tracking progress	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Fikri Cem Ylmaz
110		Editing profile	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Egemen Kaplan
111		Comment	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Egemen Kaplan
112		Ratings	16 days?	11/7/21 8:00 AM	11/29/21 5:00 PM		Egemen Kaplan
113		**Milestone 4 report**	**17 days?**	**11/30/21 8:00 AM**	**12/16/21 5:00 PM**	**86;97;105**	**Each Team Member**
114		Review on last version of application	13 days?	11/30/21 8:00 AM	12/16/21 5:00 PM		Each Team Member
115		Testing	17 days?	11/30/21 8:00 AM	12/16/21 5:00 PM		Android Team;Backend Team;Frontend Team
116		Delivarables	13 days?	11/30/21 8:00 AM	12/16/21 5:00 PM		Each Team Member
117		Report	17 days?	11/30/21 8:00 AM	12/16/21 5:00 PM		Alper Canberk Balc;Selman Berk Özkurt



6.5.2-RAM

This is the responsibility assignment matrix, it demonstrates the each work done by today and the works will be done in future and each members' effort on those works.

Also can be found [here]

L - Lead C - Contributor R - Reviewer A - Approval N - None	Alper Canberk Balcı	Bekir Tatar	Eren Altunoğlu	Fikri Cem Yılmaz	Hatice Şule Erkul	Mehmet Yasin Şeremet	Muhammed Emin Deniz	Selman Berk Özkurt	Egemen Kaplan
Documentation									
Meeting Notes Template	C	N	N	N	C	N	N	N	N
Create Communication Plan Page	C	N	N	N	L	N	N	N	N
Create Slack Workspace and Organize Channels	N	N	N	C	N	N	C	N	N
Create a doodle for regular meeting time	N	N	N	N	N	N	L	N	N
Repos we find interesting	C	C	C	C	C	C	C	C	N
Modify README page	N	L	N	N	N	N	N	N	N
Create own wiki page	C	C	C	C	C	C	C	C	N
Create and organize labels	N	N	N	N	N	N	N	L	N
Research About Similar Page	C	C	C	C	C	C	L	C	N
Git Research Page	C	R	R	R	C	C	R	C	N
Requirements									
Requirement Wiki Page	C	L	C	R	R	C	C	L	N
Questions to customer	L	N	C	C	C	C	C	C	N
Mockups									
Scenario 1 Mobile Design	C	C	R	C	R	C	C	L	N
Scenario 2 Mobile Design	C	C	R	L	R	C	C	C	N
Scenario 3 Mobile Design	N	N	N	L	N	N	N	N	N
Scenario 4 Mobile Design	L	N	N	N	N	N	N	N	N
Scenario 5 Mobile Design	N	N	N	N	L	N	N	N	N
Scenario 6 Mobile Design	N	N	N	N	N	N	L	N	N
Scenario 1 Web Design	N	N	L	N	N	N	N	N	N
Scenario 2 Web Design	N	N	N	N	N	N	N	L	N
Scenario 3 Web Design	C	C	R	C	R	C	C	L	N
Scenario 4 Web Design	L	N	N	N	N	N	N	N	N
Scenario 5 Web Design	N	N	N	N	L	N	N	N	N
Scenario 6 Web Design	N	N	N	N	N	N	L	N	N
Scenario Wiki Template	N	N	N	N	N	L	N	N	N
Scenario 1 Wiki Page	N	N	N	N	N	L	N	N	N
Scenario 2 Wiki Page	N	N	N	L	N	N	N	N	N
Scenario 3 Wiki Page	L	N	N	N	N	N	N	N	N
Scenario 4 Wiki Page	L	N	N	N	N	N	N	N	N
Scenario 5 Wiki Page	N	N	N	N	L	N	N	N	N
Scenario 6 Wiki Page	N	N	N	N	N	N	L	N	N
Diagrams									
Use Case Diagram	C	C	C	C	C	C	C	C	N
Class Diagram	C	C	C	L	C	C	C	C	N
Sequnce Diagrams	C	C	C	C	C	C	C	C	N
Milestone									
Project Plan	A	L	A	A	A	A	A	A	N
RAM	A	A	A	L	A	A	A	A	N
Mockup Review	C	A	A	A	C	A	C	A	N
Requirement Review	C	A	A	A	C	A	C	A	N
Class Diagram Review	A	A	C	A	A	A	A	C	N
Use Case Diagram Review	A	A	C	A	A	A	A	C	N
Sequence Diagram Review	C	C	C	C	C	C	C	C	N
Milestone 1 Report	C	C	C	C	C	C	C	C	N
Configuration and Setup									
Name selection	C	C	C	C	C	C	C	C	N
Android, Backend and Frontend Team selection	C	C	C	C	C	C	C	C	N
Platform, IDE and language selection	C	C	C	C	C	C	C	C	N
User Interface Design									
Responsive WEB design	C	C	C	C	C	C	C	C	N

Android app design	C	C	C	C	C	C	C	C	N
Milestone 2 report									
Delivarables	C	C	C	C	C	C	C	C	N
Report	C	C	C	C	C	C	C	C	N
Backend 1									
Configure database for users	N	N	L	N	R	N	N	R	N
Configure database for resources and topics	N	N	L	N	R	N	N	R	N
Signup - Login	N	N	R	N	L	N	N	R	N
Search	N	N	R	N	R	N	N	L	N
Frontend 1									
Home page	R	L	N	N	N	R	N	N	N
Signup - Login	R	R	N	N	N	L	N	N	N
Profile page	R	L	N	N	N	R	N	N	N
Search	R	R	N	N	N	L	N	N	N
Navigation	L	R	N	N	N	R	N	N	N
Android 1									
Home page	N	N	N	R	N	N	L	N	R
Sign up - Login	N	N	N	L	N	N	R	N	R
Profile page	N	N	N	R	N	N	L	N	R
Search	N	N	N	L	N	N	R	N	R
Navigation	N	N	N	R	N	N	R	N	L
Milestone 3 report									
Review on initial stage of application	C	C	C	C	C	C	C	C	C
Connecting backend with frontend and android	C	C	C	C	C	C	C	C	C
Delivarables	C	C	C	C	C	C	C	C	C
Report	A	A	A	A	C	A	C	A	A
Backend 2									
Wikidata integration	N	N	R	N	R	N	N	L	N
Provide resource	N	N	R	N	R	N	N	L	N
Colective goal integration	N	N	L	N	R	N	N	R	N
Path goal integration	N	N	L	N	R	N	N	R	N
Scheduled goal integration	N	N	L	N	R	N	N	R	N
Consume resource	N	N	R	N	R	N	N	L	N
Rate material	N	N	R	N	L	N	N	R	N
Notifications	N	N	R	N	L	N	N	R	N
User Profile editing	N	N	R	N	L	N	N	R	N
Comments	N	N	R	N	L	N	N	R	N
Frontend 2									
Resource pages	R	N	L	N	N	R	N	N	N
Configure different goal type pages	R	N	L	N	N	R	N	N	N
Notifications	R	N	R	N	N	L	N	N	N
Tracking progress	R	N	R	N	N	L	N	N	N
Editing profile	L	N	R	N	N	R	N	N	N
Comment	L	N	R	N	N	R	N	N	N
Ratings	L	N	R	N	N	R	N	N	N
Android 2									
Resource pages	N	N	N	R	N	N	L	N	R
Configure diffrent goal type pages	N	N	N	R	N	N	L	N	R
Notifications	N	N	N	L	N	N	R	N	R
Tracking progress	N	N	N	L	N	N	R	N	R
Editing profile	N	N	N	R	N	N	R	N	L
Comment	N	N	N	R	N	N	R	N	L
Ratings	N	N	N	R	N	N	R	N	L
Milestone 4 report									
Review on last version of application	C	C	C	C	C	C	C	C	C
Testing	C	C	C	C	C	C	C	C	C
Delivarables	C	C	C	C	C	C	C	C	C
Report	C	A	A	A	A	A	A	C	A

7-Acknowledgements

- CSS style for html tables (Sections 5 and 6.1) is taken from w3schools.
- Mockup images (Section 6.3) are drawn using Diagrams.net online service.
- UML diagrams (Section 6.4) are drawn using Lucidchart online service.
- Project plan (Section 6.5) is built using ProjectLibre free and open source software.
- This report is knitted using Markdown 1.0.1 into html and printed using Google Chrome version 89.