

CmpE352

May 2019

Group10

Milestone 2: Group Deliverables

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1 Executive Summary

1.1 Project Information

Our app, “YALLP”, is a platform where people can improve their language skills via learning from the materials which users from all around the world have uploaded. For ensuring the quality of uploaded materials, all the materials are analyzed and inspected by experts and natives. Apart from being an open learning platform you can share your knowledge and help other users. The goal of this project is to create an environment to users where they can master a language as if they are living in the country of that language. Any user can contact with a native or an expert to talk or discuss about anything. Since, daily speech is a part of learning, messaging between users is also another benefit “YALLP” provides to its users. We all know the famous lines from Cem Yilmaz “Speak English? I live in English”. That’s exactly what we are aiming for.

1.2 Work Done in the Second Part

After first milestone, we saw how far we came in the project. We also realized that we have much to go from now on. In the second half, first we prepared a project plan. In this plan, we stated what we have done so far and what we are expected to accomplish in the upcoming days. Everyone stated what they have done and how long the work took in the process. As you expect, the future plan is tangible due to our lack of experience since it is not easy to oversee the expected work from where we stand.

After the plan, we started to execute it. From now on, we were expected to code steadily. First we had to understand what an api means and how can we create or use a third party one. Then we had to decide on a third party api which we can use on our project. It took some time to decide on a suitable third party api for our project. In the end we agreed on “Wordsapi”.

Next thing was creating the code base of our project. Since some of our friends have prior experience on creating a server or deploying to the Amazon, they carry the great burden because they did not only contributed hugely, they also helped others to understand the basics of creating a server or writing a frontend code. It was not easy use automated git workflow. Of course, we could not accomplished fully automation, however, for start we effectively used the git branching and fully understood how to use pull request and what to check on code reviews. Most of us are new to code review and pull requests yet even a tiny comment on a code became very awakening.

In the backend part we used node.js to create server and endpoints, angular.js is used in the frontend part. Now we have a fully running website in the <http://172.104.144.149:8786/api>.

1.3 What is next?

In the second half of the project, we have learned so much about coding a real project and how this project is going to evolve. Each task we have been assigned, we have overcome every difficulty maybe not with ease but determination. From now on we will keep developing “YALLP” and we will never stop improving our knowledge on backend and frontend. We have now more than ever ready to learn new ways to code. We have fully functioning backend and a working frontend to give us a clue what will be the direction. We will create android app also for our project.

“YALLP” is in web currently and expected to be in android platform. While developing android platform we will use our previous coding experience. After summer we will start coding our way out. Once we were a group of people and most of us do not know each other. At the end, we are going to be pals who own an unprecedented language learning platform app.

2 List and Status of Deliverables

Name	Delivery Date	Delivery Status
Requirements	Feb 25, 2019	Delivered
User Stories & Mockups	Mar 4, 2019	Delivered
Design(Use Case, Class, Sequence Diagrams)	Mar 18, 2019	Delivered
Project Plan	Apr 8, 2019	Delivered
Practice App Api	May 6, 2019	Delivered

3 Evaluation of the Status of Deliverables and Their Impact on Plan

- **User Scenarios and Mock-ups:** We have created 3 different scenarios and mockups for those scenarios. All the scenarios and mockups were updated after a feedback. We paid attention to distribute them uniform enough over the requirements of the project. We did not put much details into graphical design, kept it simple and, by doing so, similar, to make those designs (for web, ios, android) later in more detail.
- **Requirements:** This is probably the most important document of our project, the one which implicitly and explicitly determines many others' attributes and even existence at all. Expectedly, it has the biggest effort ratio among the documents, there were made several readjustments onto this document and probably some will be made in the near future.
- **Design Diagrams:** We communicated a lot during the design of our Use-case, sequence diagrams and the class diagram. Especially class diagram, which was related to all other diagrams. They all changed drastically after the first feedback, we almost re-designed all of them and all the changes were worth having. Communication was more active during re-design process, which resulted in a more improved general structure and consistency among diagrams.
- **Project Plan:** Planning is important when we talk about group projects. So, we created a project plan that outlines the major activities and milestones of our project. We update our plan to keep track of the progression. It is a high level plan.
- **Practice App Api:** This is an practice app to help us studying implementing a code. We implemented a basic frontend and backend code. We cannot catch up deadline for the frontend part. But we completed it on the same day. We also face the difficulties to work as a group. App can be improved, but it provides basics which are wanted.

4 Work-Done by Team Members (After Milestone 1)

Team Member	Contributions
Yavuz Demir	I wrote requirements part of the project plan. I changed the port at server. I implemented async test for synonym method and frontend for similarTo method. I wrote executive summary section of the milestone 2. I reviewed the code of some team members and merged them into the master branch. I created pull requests for contribution. I implemented the get request. I deployed tests to live server.
Murat Buldu	I did the backend, frontend and backend test for example endpoint. I combined the jobs prepared by other members in ProjectLibre. I uploaded the project plan to github repository. I created an aws instance. I created a basic document for how to connect to aws instance, download from and upload to the instance. I did the backend for antonym and helped to write tests for it. I did the backend, frontend and backend test for example endpoint. I updated the project plan.
Fahri Can Şanlı	I took meeting notes for the group meetings. I searched about project plan and wrote persona and user scenarios parts. I searched about API and how to use it. I implemented a post request and a test for definition endpoint. I created the basis for angular frontend. I implented frontend for homepage and 3 endpoints. I reviewed two of my teammate's code. I prepared the evaluation of tools part of the milestone 2.
Hasan Basri Balaban	I wrote the mobile mockups part of the project plan. I searched about API. I implemented backend, frontend and backend test for rhyme endpoint. I reviewed one of my teammate's code. I prepared the work-done by team members part of the milestone 2 and I reviewed the last version of the milestone report.
SümeYra Yılmaz	I wrote the evaluations of documentation part of the project plan. I studied APIs and found a related API to use in project. I wrote a unit test for antonym. I created some pull requests and made some reviews. I wrote api documentation. I added the endpoint SimilarTo.
Kaan Dura	I created the backend basis by using Node.js and created the necessary files for the database connection. I implemented the synonym endpoint and wrote a test for it. I searched about API and found the wordsapi that we are currently using. I deployed the backend to cloud hosting.
Nevzat Ersoy	I studied APIs and found a related API to use in project. I wrote a unit test for similarTo and frequency. I created some pull requests and made some reviews. I did the backend and frontend for frequency endpoint.
Melih Demir	

Table 1: Work-done by Each Team member

5 Evaluation of Tools and Processes

Tools And Processes	Evaluation
Github	Github is our main and essential tool while developing our application. We put our weekly meeting notes there and create issues frequently to check progress of our tasks. For this purpose, we mainly use projects part of the github. Also, since this is a group project, it is impossible to code it using only one computer. Therefore, we use github to store our actual code and create branches from it to develop multiple features at the same time.
Pull Request	As we stated above, different team member creates different branches to develop different features of our application. For that reason, we benefits from pull request to give other people a chance to review each other's code before merge them with master.
Code Review	Code review is almost one of the most important process when developing our project. Since, different team members takes responsibility for different parts of our application, people may make mistakes when using some functionality provided by their teammates. Hence, we decided to use code review for each feature we develop to prevent mistakes.
Postman	Postman is a tool that we used for developing backend part of our project. As we all know, our backend includes different endpoints and different request types such as get and post. Postman provides us the environment to test our code by sending different request with different contents to our endpoints and see the responses.
Visual Studio	To develop our code, we needed a development environment. We haven't determined a common IDE but Visual Studio is one of them. Visual Studio is a good environment to develop a Node.js based backend and Angular based frontend.
Whatsapp and Slack	Since we work as a team, we must be in touch at all times to let everyone be aware of improvements we have achieved and the difficulties we have faced. Sometimes, we also use this communication channels to make some important decisions that shows up after our meetings. For example, during our meeting, we decided to use React for frontend but then we changed it to Angular.
Angular	Angular is a platform to build applications with web. It has client-side rendering. We used typescript when developing our angular application.
Node.js	Node.js is a JavaScript framework for developing backend projects. We choosed Node.js for our backend because Node.js runs on various platforms, it is extremely fast and I/O is asynchronous and event driven. During our development we loved Node.js features and we will use Node.js in the future.
Express.js	Express.js is a web application framework for Node.js. To create our API, we needed a router for Node.js. Basically we used Express.js for creating endpoints and returning responses.

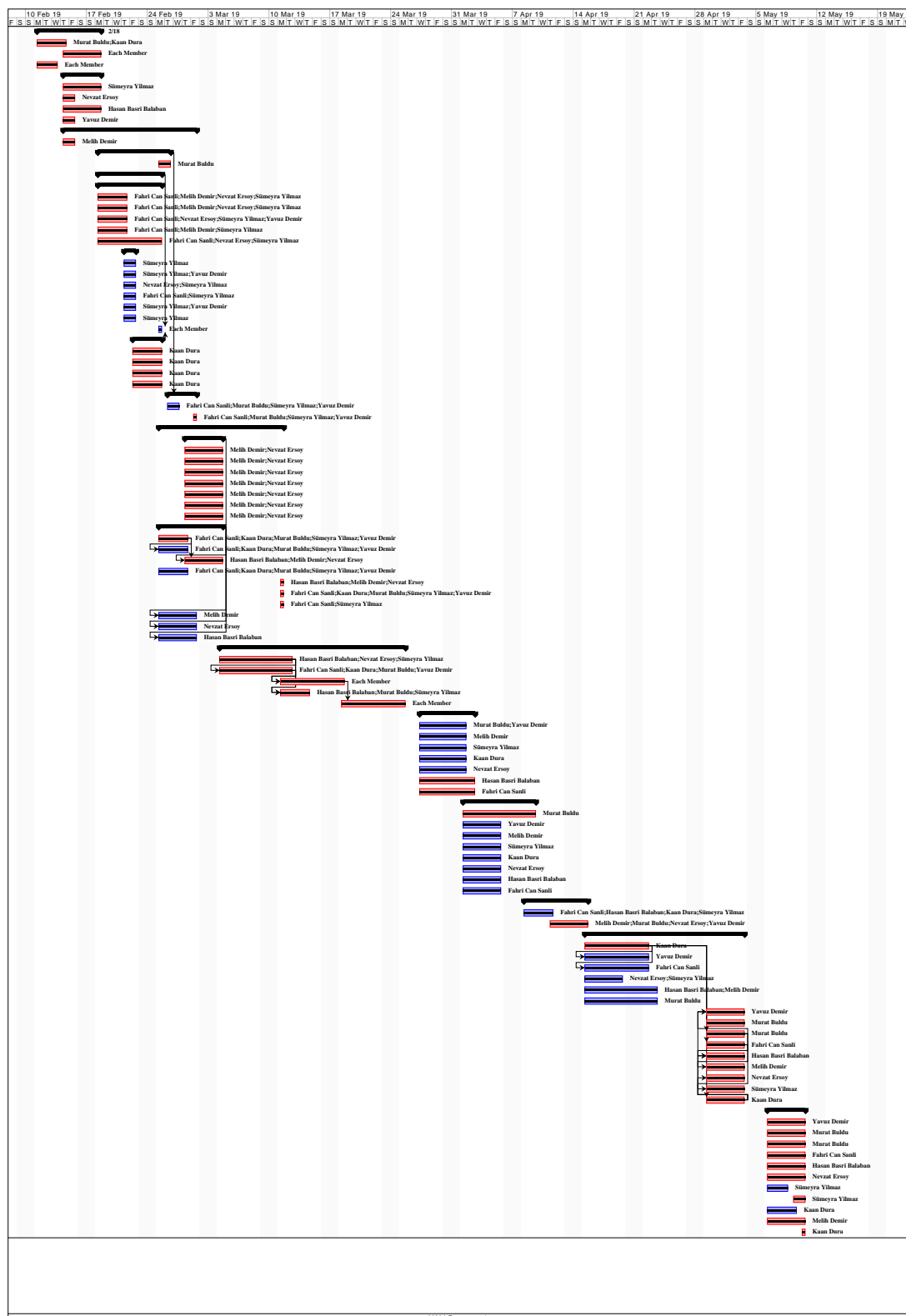
Table 2: Evaluation of Tools and Processes

6 Project Plan

		Name	Duration	Start	Finish	Predecessors	Resource Names
1	✓	Description	6 days	2/11/19 8:00 AM	2/18/19 5:00 PM		
2	✓	Repository Initialize	4 days	2/11/19 8:00 AM	2/14/19 5:00 PM		Murat Buldu,Kaan Dura
3	✓	Repository Search	3 days	2/14/19 8:00 AM	2/18/19 5:00 PM		Each Member
4	✓	Personal Pages	3 days	2/11/19 8:00 AM	2/13/19 5:00 PM		Each Member
5	✓	Guidelines	3 days	2/14/19 8:00 AM	2/18/19 5:00 PM		
6	✓	Issues	3 days	2/14/19 8:00 AM	2/18/19 5:00 PM		Sümeysra Yılmaz
7	✓	Commits	2 days	2/14/19 8:00 AM	2/16/19 5:00 PM		Nevzat Ersoy
8	✓	Labels	3 days	2/14/19 8:00 AM	2/18/19 5:00 PM		Hasan Basri Balaban
9	✓	Git	2 days	2/14/19 8:00 AM	2/15/19 5:00 PM		Yavuz Demir
10	✓	Requirement Communication and Project ...	12 days	2/14/19 8:00 AM	3/1/19 5:00 PM		
11	✓	Communication Plan	2 days	2/14/19 8:00 AM	2/15/19 5:00 PM		Melih Demir
12	✓	The First Draft of the Project Requireme...	7 days	2/18/19 8:00 AM	2/28/19 5:00 PM		
13	✓	Glossary	2 days	2/25/19 8:00 AM	2/26/19 5:00 PM		
14	✓	Functional Requirements	6 days	2/18/19 8:00 AM	2/25/19 5:00 PM		Murat Buldu
15	✓	User Requirements	6 days	2/18/19 8:00 AM	2/25/19 5:00 PM		
16	✓	User Types	4 days	2/18/19 8:00 AM	2/21/19 5:00 PM		Fahri Can Sanli,Melih Demir,Nevzat Ersoy,Sümeysra Yılmaz
17	✓	Authentication	4 days	2/18/19 8:00 AM	2/21/19 5:00 PM		Fahri Can Sanli,Melih Demir,Nevzat Ersoy,Sümeysra Yılmaz
18	✓	Profile	4 days	2/18/19 8:00 AM	2/21/19 5:00 PM		Fahri Can Sanli,Nevzat Ersoy,Sümeysra Yılmaz,Yavuz Demir
19	✓	Communication	4 days	2/18/19 8:00 AM	2/21/19 5:00 PM		Fahri Can Sanli,Melih Demir,Sümeysra Yılmaz
20	✓	Recommendation and Contribution	6 days	2/18/19 8:00 AM	2/25/19 5:00 PM		Fahri Can Sanli,Nevzat Ersoy,Sümeysra Yılmaz
21	✓	System Requirements	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		
22	✓	Search	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		Sümeysra Yılmaz
23	✓	Recommendation	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		Sümeysra Yılmaz,Yavuz Demir
24	✓	Annotation	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		Nevzat Ersoy,Sümeysra Yılmaz
25	✓	Access	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		Fahri Can Sanli,Sümeysra Yılmaz
26	✓	Learning Material	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		Sümeysra Yılmaz,Yavuz Demir
27	✓	Notification	2 days	2/21/19 8:00 AM	2/22/19 5:00 PM		Sümeysra Yılmaz
28	✓	Revise Project Requirements	1 day	2/25/19 8:00 AM	2/25/19 5:00 PM	14,29	Each Member
29	✓	Non-Functional Requirements	2 days	2/22/19 8:00 AM	2/25/19 5:00 PM		
30	✓	Availability	2 days	2/22/19 8:00 AM	2/25/19 5:00 PM		Kaan Dura
31	✓	Scalability	2 days	2/22/19 8:00 AM	2/25/19 5:00 PM		Kaan Dura
32	✓	Security	2 days	2/22/19 8:00 AM	2/25/19 5:00 PM		Kaan Dura
33	✓	Reliability	2 days	2/22/19 8:00 AM	2/25/19 5:00 PM		Kaan Dura
34	✓	The First Version of the Project Require...	4 days	2/26/19 8:00 AM	3/1/19 5:00 PM	12	
35	✓	Update wrt. Customer Feedback	1 day	2/26/19 8:00 AM	2/27/19 5:00 PM		Fahri Can Sanli,Murat Buldu,Sümeysra Yılmaz,Yavuz Demir
36	✓	Update wrt. Group Feedback	1 day	3/1/19 8:00 AM	3/1/19 5:00 PM		Fahri Can Sanli,Murat Buldu,Sümeysra Yılmaz,Yavuz Demir
37	✓	Mockups	11 days	2/25/19 8:00 AM	3/1/19 5:00 PM		
38	✓	Mobile Mockups	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		
39	✓	Log-in Page	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
40	✓	Homepage	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
41	✓	User Profile Page	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
42	✓	Reading Material Page	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
43	✓	Language Home Page	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
44	✓	Writing Exercises Page	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
45	✓	Expert List Page	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM		Melih Demir,Nevzat Ersoy
46	✓	Personas and User Scenarios	6 days	2/25/19 8:00 AM	3/4/19 5:00 PM		
47	✓	Creating 3 different personas	4 days	2/25/19 8:00 AM	2/28/19 5:00 PM		Fahri Can Sanli,Kaan Dura,Murat Buldu,Sümeysra Yılmaz,Yavuz Demir
48	✓	Writing 3 different user scenarios	4 days	2/25/19 8:00 AM	2/28/19 5:00 PM	47	Fahri Can Sanli,Kaan Dura,Murat Buldu,Sümeysra Yılmaz,Yavuz Demir
49	✓	Matching user scenarios with mockups	3 days	2/28/19 8:00 AM	3/4/19 5:00 PM	38,47	Hasan Basri Balaban,Melih Demir,Nevzat Ersoy
50	✓	Matching user scenarios with requirements	4 days	2/25/19 8:00 AM	2/28/19 5:00 PM		Fahri Can Sanli,Kaan Dura,Murat Buldu,Sümeysra Yılmaz,Yavuz Demir
51	✓	Revise Mockups	1 day	3/1/19 8:00 AM	3/1/19 5:00 PM		Hasan Basri Balaban,Melih Demir,Nevzat Ersoy
52	✓	Revise User Scenarios	1 day	3/1/19 8:00 AM	3/1/19 5:00 PM		Fahri Can Sanli,Kaan Dura,Murat Buldu,Sümeysra Yılmaz,Yavuz Demir
53	✓	Revise Requirements	1 day	3/1/19 8:00 AM	3/1/19 5:00 PM		Fahri Can Sanli,Sümeysra Yılmaz
54	✓	Design of mockup of expert scenario	5 days	2/25/19 8:00 AM	3/1/19 5:00 PM	46	Melih Demir
55	✓	Design of mockup of student scenario	5 days	2/25/19 8:00 AM	3/1/19 5:00 PM	46	Nevzat Ersoy
56	✓	Design of mockup of guest user scenario	5 days	2/25/19 8:00 AM	3/1/19 5:00 PM	46	Hasan Basri Balaban
57	✓	Diagrams	16 days	3/4/19 8:00 AM	3/25/19 5:00 PM		
58	✓	Use-Case Diagram	7 days	3/4/19 8:00 AM	3/12/19 5:00 PM		Hasan Basri Balaban,Nevzat Ersoy,Sümeysra Yılmaz
59	✓	Class Diagram	7 days	3/4/19 8:00 AM	3/12/19 5:00 PM	58	Fahri Can Sanli,Kaan Dura,Murat Buldu,Yavuz Demir
60	✓	Sequence Diagrams	6 days	3/11/19 8:00 AM	3/18/19 5:00 PM	58,59	Each Member
61	✓	Use-Case and Class Diagrams Integration	4 days	3/11/19 8:00 AM	3/14/19 5:00 PM	58,59	Hasan Basri Balaban,Murat Buldu,Sümeysra Yılmaz
62	✓	Updates and Sequence Diagram Additions	6 days	3/18/19 8:00 AM	3/25/19 5:00 PM	60	Each Member
63	✓	Milestone 1	5 days	3/27/19 8:00 AM	4/2/19 5:00 PM		
64	✓	Write executive summary	4 days	3/27/19 8:00 AM	4/1/19 5:00 PM		Murat Buldu,Yavuz Demir
65	✓	Write design part	4 days	3/27/19 8:00 AM	4/1/19 5:00 PM		Melih Demir
66	✓	Write the list and status of deliverables an...	4 days	3/27/19 8:00 AM	4/1/19 5:00 PM		Sümeysra Yılmaz
67	✓	Create the personal effort table	4 days	3/27/19 8:00 AM	4/1/19 5:00 PM		Kaan Dura
68	✓	Write evaluation of the status of deliverables	4 days	3/27/19 8:00 AM	4/1/19 5:00 PM		Nevzat Ersoy
69	✓	Check the progress and the organization o...	5 days	3/27/19 8:00 AM	4/2/19 5:00 PM		Hasan Basri Balaban
70	✓	Check the progress and the organization o...	5 days	3/27/19 8:00 AM	4/2/19 5:00 PM		Fahri Can Sanli
71	✓	Project Plan	7 days	4/1/19 8:00 AM	4/8/19 5:00 PM		
72	✓	Merge of every documentation into project...	7 days	4/1/19 8:00 AM	4/8/19 5:00 PM		Murat Buldu
73	✓	Preparation of project plan, communicatio...	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Yavuz Demir
74	✓	Preparation of documentation	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Melih Demir
75	✓	Preparation of evaluations documentations	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Sümeysra Yılmaz
76	✓	Web mockup documentations	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Kaan Dura
77	✓	Diagrams and milestone 1 documentations	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Nevzat Ersoy
78	✓	Mobile mockup documentations	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Hasan Basri Balaban
79	✓	Persona and user scenarios and revisions ...	5 days	4/1/19 8:00 AM	4/5/19 5:00 PM		Fahri Can Sanli
80	✓	Examine and study how to use an API	6 days	4/8/19 8:00 AM	4/15/19 5:00 PM		
81	✓	Search related apis	4 days	4/8/19 8:00 AM	4/11/19 5:00 PM		Fahri Can Sanli,Hasan Basri Balaban,Kaan Dura,Sümeysra Yılmaz
82	✓	Study how the these apis works	3 days	4/11/19 8:00 AM	4/15/19 5:00 PM		Melih Demir,Murat Buldu,Nevzat Ersoy,Yavuz Demir
83	✓	Initialize Implementation	15 days	4/15/19 8:00 AM	5/3/19 5:00 PM		
84	✓	Create node.js server	6 days	4/15/19 8:00 AM	4/22/19 5:00 PM		Kaan Dura
85	✓	Handling get request	6 days	4/15/19 8:00 AM	4/22/19 5:00 PM	84	Yavuz Demir
86	✓	Handling post request	6 days	4/15/19 8:00 AM	4/22/19 5:00 PM	84	Fahri Can Sanli
87	✓	Decide which api to use	5 days	4/15/19 8:00 AM	4/19/19 5:00 PM		Nevzat Ersoy,Sümeysra Yılmaz
88	✓	Creating front-end page	7 days	4/15/19 8:00 AM	4/23/19 5:00 PM		Hasan Basri Balaban,Melih Demir
89	✓	Create an Amazon AWS EC2 instance	7 days	4/15/19 8:00 AM	4/23/19 5:00 PM		Murat Buldu
90	✓	Test of the word synonym and antonym	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	92,98	Yavuz Demir
91	✓	Update project plan	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM		Murat Buldu
92	✓	Backend of word antonym with get request	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	84	Murat Buldu
93	✓	Backend of word definition with post request	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	84	Fahri Can Sanli
94	✓	Creating word synonym and antonym front...	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	92,98	Hasan Basri Balaban
95	✓	Creating word definition frontend page	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	93	Melih Demir
96	✓	Test of the word synonym	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	98	Nevzat Ersoy
97	✓	Test of the word antonym	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	92	Sümeysra Yılmaz
98	✓	Backend of word synonym with get request	5 days	4/29/19 8:00 AM	5/3/19 5:00 PM	84	Kaan Dura
99	✓	Milestone 2	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		
100	✓	Write executive summary part of the milest.	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Yavuz Demir
101	✓	Update project plan	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Murat Buldu
102	✓	Write project plan to the milestone report	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Murat Buldu
103	✓	Write evaluation of tools and processes pa...	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Fahri Can Sanli
104	✓	Write work done by team members part of...	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Hasan Basri Balaban
105	✓	Api documentation	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Nevzat Ersoy
106	✓	Write list and status of deliverables part o...	3 days	5/6/19 8:00 AM	5/8/19 5:00 PM		Sümeysra Yılmaz
107	✓	Write evaluation of status of deliverables p...	2 days	5/8/19 8:00 AM	5/10/19 5:00 PM		Sümeysra Yılmaz
108	✓	Write evaluation of tools and processes pa...	4 days	5/6/19 8:00 AM	5/9/19 5:00 PM		Kaan Dura
109	✓	Review of the milestone	5 days	5/6/19 8:00 AM	5/10/19 5:00 PM		Melih Demir
110	✓	Deploy the website	1 day	5/10/19 8:00 AM	5/10/19 5:00 PM		Kaan Dura

YALP

6.1 Gantt Chart



7 API URL