# Agile Software Development

**UNICHATBOT** 

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#### **MVP**

Dataset	Chatbot where you can ask questions in writing and get answers in writing	Chatbot where you can verbally ask questions and get answers verbally	Chatbot with ontology added
1	2	3	4

**Table 1. MVP (Minimum Viable Product)** 

#### **Sprint 1**

#### **User Stories**

As a user role, I want to ask questions about transportation so that I can get answers to my questions about buses with certain numbers.

As a user role, I want to ask questions about transportation so that I can get answers to my questions about bus 605.

As a user role, I want to ask questions about transportation so that I can get answers to my questions about bus 606.

As a user role, I want to ask questions about transportation so that I can get answers to my questions about bus 607.

As a user role, I want to ask questions about transportation so that I can get answers to my questions about bus 608.

As an admin role, I want to create a dataset so that I can answer user questions.

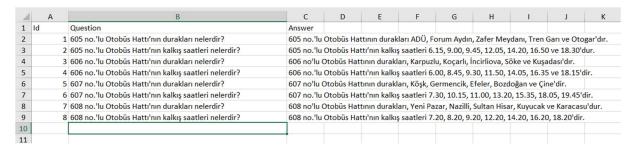


Figure 1. Dataset (MVP 1)

### Sprint 2

#### **User Stories**

As a user role, I want to ask questions so that I can learn the routes of the bus 605.

As a user role, I want to ask questions so that I can learn about the departure times of bus 605.

As a user role, I want to ask questions so that I can learn the arrival times of the bus 605 at the stops.

As a user role, I want to ask questions so that I can find out the pricing of bus 605.

As a user role, I want to ask questions so that I can learn the routes of the bus 606.

As a user role, I want to ask questions so that I can learn about the departure times of bus 606.

As a user role, I want to ask questions so that I can learn the arrival times of the bus 606 at the stops.

As a user role, I want to ask questions so that I can find out the pricing of bus 606.

As a user role, I want to ask questions so that I can learn the routes of the bus 607.

As a user role, I want to ask questions so that I can learn about the departure times of bus 607.

As a user role, I want to ask questions so that I can learn the arrival times of the bus 607 at the stops.

As a user role, I want to ask questions so that I can find out the pricing of bus 607.

As a user role, I want to ask questions so that I can learn the routes of the bus 608.

As a user role, I want to ask questions so that I can learn about the departure times of bus 608.

As a user role, I want to ask questions so that I can learn the arrival times of the bus 608 at the stops.

As a user role, I want to ask questions so that I can find out the pricing of bus 608.

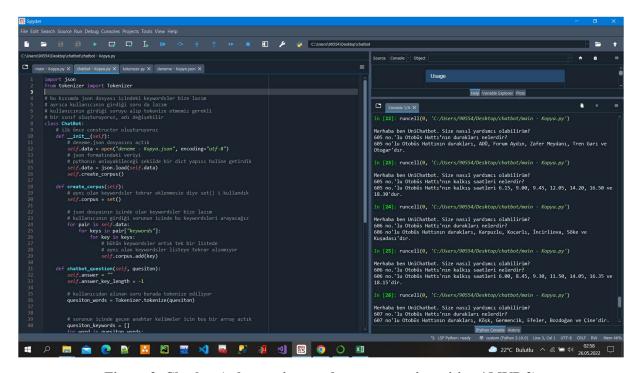


Figure 2. Chatbot (ask questions and get answers in writing / MVP 2)

## **Sprint 3**

#### **User Stories**

As a user role, I want to ask my question by typing so that I can get an answer to my question about transportation.

As a user role, I want to ask my question by talking so that I can get an answer to my question about transportation.

As a user role, I want to get written answer so that I can get an answer to my question about transportation.

As a user role, I want to get verbal answer so that I can get an answer to my question about transportation.

As an admin role, I want to write test code so that I can be able to test the project.

As an admin role, I want to create an ontology so that I can be able to answer questions that are not in the dataset.

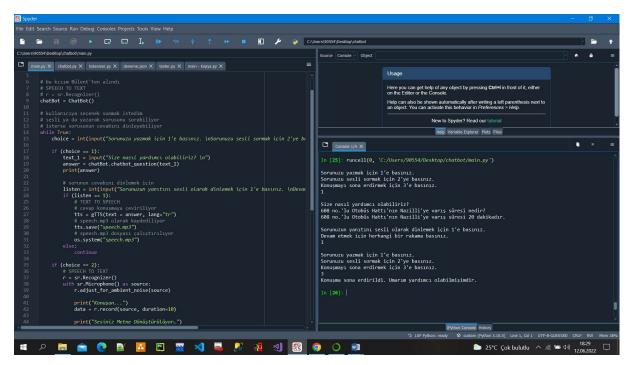


Figure 3. Chatbot (ask questions and get answers verbally / MVP 3 and MVP 4)

**Trello**: https://trello.com/b/eB1uijxz/unichatbot

## **User Acceptance Test for Sprint 1**

User Story	Purpose / Scenario	Acceptance Criteria		
		Given (Input / Preconditions)	When (Action / Triggers)	Then (Output / Postconditions)
As an admin role, I want to create a dataset so that I can answer user questions.	Create a dataset	Decide what questions about buses need to be prepared	Do research on the decided issues	Created a dataset of questions and answers about buses
As a user role, I want to ask questions about transportation so that I can get answers to my questions about buses with certain numbers (605, 606, 607, 608).	Answering questions about buses	Prompt user to enter question	If there is a match between the dataset and the question entered, via keyword	Bring the answer to that question

## **User Acceptance Test for Sprint 2**

User Story	Purpose / Scenario	Acceptance Criteria		
		Given (Input / Preconditions)	When (Action / Triggers)	Then (Output / Postconditions)
As a user role, I want to ask questions so that I can learn the routes of the buses 605, 606, 607 and 608.	Answering questions about buses	Prompt user to enter question	If there is a match between the dataset and the question entered, via keyword	Bring the answer to that question
As a user role, I want to ask questions so that I can learn about the departure times of buses 605, 606, 607 and 608.	Answering questions about buses	Prompt user to enter question	If there is a match between the dataset and the question entered, via keyword	Bring the answer to that question
As a user role, I want to ask questions so that I can learn the arrival times of the buses 605, 606, 607 and 608 at the stops.	Answering questions about buses	Prompt user to enter question	If there is a match between the dataset and the question entered, via keyword	Bring the answer to that question
As a user role, I want to ask questions so that I can find out the pricing of buses 605, 606, 607 and 608.	Answering questions about buses	Prompt user to enter question	If there is a match between the dataset and the question entered, via keyword	Bring the answer to that question

# **User Acceptance Test for Sprint 3**

User Story	Purpose / Scenario	Acceptance Criteria		
		Given (Input / Preconditions)	When (Action / Triggers)	Then (Output / Postconditions)
As a user role, I want to ask my question by typing or talking so that I can get an answer to my question about transportation.	text to speech, speech to text	Prompt user to enter question by typing or talking	If there is a match between the dataset and the question entered, via keyword	Bring the answer to that question
As a user role, I want to get written or verbal answer so that I can get an answer to my question about transportation.	text to speech, speech to text	Prompt user to enter question	If there is a match between the dataset and the question entered, via keyword	Bring the written or verbal answer to that question
As an admin role, I want to write test code so that I can be able to test the project.	write test code	Get the chatbot's answer to all the questions in the dataset so you can test the chatbot code	Compare these answers with their counterparts in the dataset	Find out what percentage of accuracy the chatbot has
As an admin role, I want to create an ontology so that I can be able to answer questions that are not in the dataset.	create and add ontology	Create an ontology so that the chatbot can answer questions that are not in the dataset	Integrate the ontology code into the project	The chatbot answered some questions that weren't in the dataset