

Software Requirements Specification

QURAN WORLD



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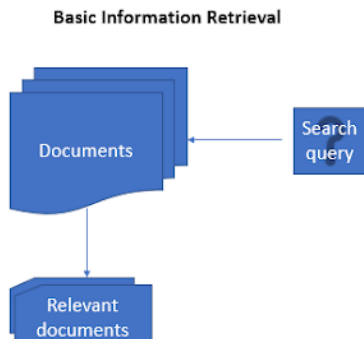
1.Introduction

1.1 System introduction

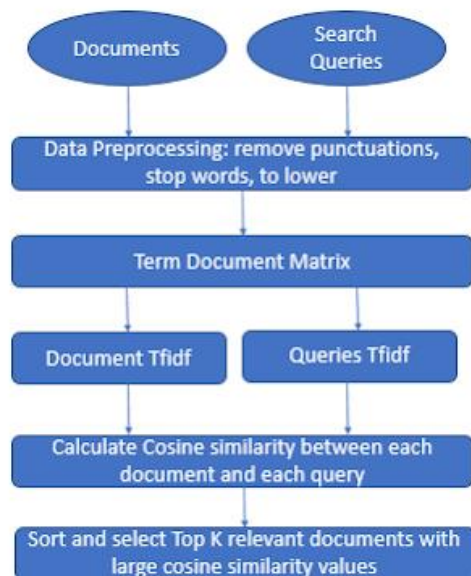
Quran world is a machine learning web-based project in which user will enter any word or phrase in three languages (English, Urdu, Arabic). The system will retrieve all Ayat e Karima with their Urdu and English translation, hadith shareef related to input token. The reference of Ayat such as para no, Surat name Ayat number of sura, hadith number, source of hadith and reference book of hadith are provided to user. In order to implement this project, we will use vector space model, synonyms and keyword-based search as a baseline to retrieve relevant record

1.2 Background of system

Most of the search engine developed using vector space model only uses tf idf to extract the result the structure of previous systems is below



but in our project we have implemented tfidf , cosine similarity, synonyms to extract better results. The overall structure of our search engine is given below



1.3 Objective of system

- User will enter any keyword, phrase. User can search Ayat Kareem from Quran e Pak on the bases of entered token
- System will retrieve Hadith shareef on the bases of entered token or phrase
- User can see prayers timing of different cities of Pakistan
- User can learn different Duas
- User can learn Namaz with Urdu translation

1.4 Significance of system

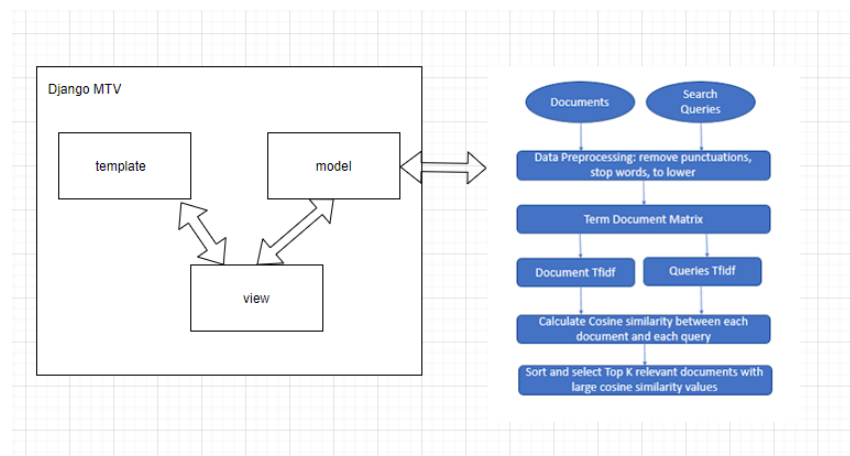
Since the main purpose of the system is to search and retrieve data based on the query. So by changing only the dataset we can implant this system. Search engines essentially act as filters for the wealth of information available in a specific dataset or not. They allow users to quickly and easily find information that is of genuine interest or value.

Let's suppose if you want to implement a simple search engine on a book, novel or on any data set you can use this project. You have to just change the dataset and hence it will reduce cost that is required in development of a new system.

2. Overall description

2.1 Product perspective

The overall architecture of the system is given below. The user will interact with templet (ui) and put his quires there. Then the templet will send that request to view and view will be able to forward query to model. Model is connected with search engine. The results will be sanded to model. Model will pass the results to view and view render the results to user interface



2.2 Product scope

Quran world is a machine learning web-based project in which user will enter any word or phrase in three languages (English, Urdu, Arabic). The system will retrieve all Ayat e karima with their Urdu and English translation, hadith shareef related to input token and tafsir of Ayat e karima. The reference of Ayat such as para no, Surat name Ayat number of sura, hadith number, source of hadith and reference book of hadith are provided to user.

In order to implement this project, we will use vector space model, synonyms and keyword-based search as a baseline to retrieve relevant record

2.3 Product functionalities

- User will enter any keyword, phrase. User can search Ayat Kareem from Quran e Pak on the bases of entered token
- System will retrieve Hadith shareef on the bases of entered token or phrase
- User can see prayers timing of different cities of Pakistan
- User can learn different Duas
- User can learn Namaz with Urdu translation

2.4 Users and characters

Users:

User

Characteristics:

- User will enter any keyword, phrase. User can search Ayat Kareem from Quran e Pak on the bases of entered token
- System will retrieve Hadith shareef on the bases of entered token or phrase
- User can see prayers timing of different cities of Pakistan
- User can learn different Duas
- User can learn Namaz with Urdu translation

2.5 Operating environment

The software will operate with the following software components and applications: The software being developed will be running under windows operating system. The hardware that will be running these programs will be, 2gb ram, 5gb free space in hard disk The synchronization procedures will be written to interface with Windows 7

3. Specific requirements

3.1 functional requirements

This section lists the functional requirements in ranked order from more important to least important.

S. No.	Functional Requirement	Type	Status
1	The user should be able to search from Quran	Core	Completed
2	The user should be able to search from Hadith	Core	Completed
3	The user should be able to learn duas from Quran.	Core	Uncompleted
4	The user should be able see prayers timing of different cities	Core	Completed
5	The user should be able to search from Hadith using voice search	Core	Uncompleted
6	The user should be able to search from Quran using voice search	Core	Uncompleted
7	The user should be able to search from Quran by putting query in English, Urdu and Arabic language	Core	Uncompleted
8	The user should be able to search from Hadith by putting query in English, Urdu and Arabic language	Core	Uncompleted

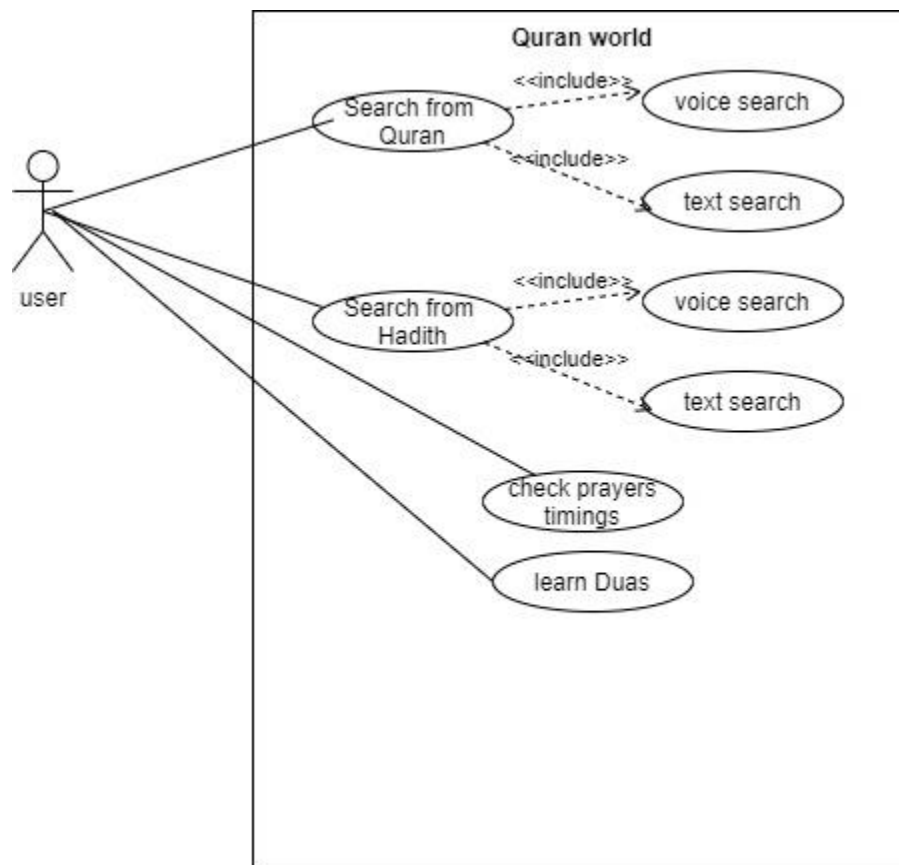
3.2 Behavior requirements

Actors:

User

Use cases:

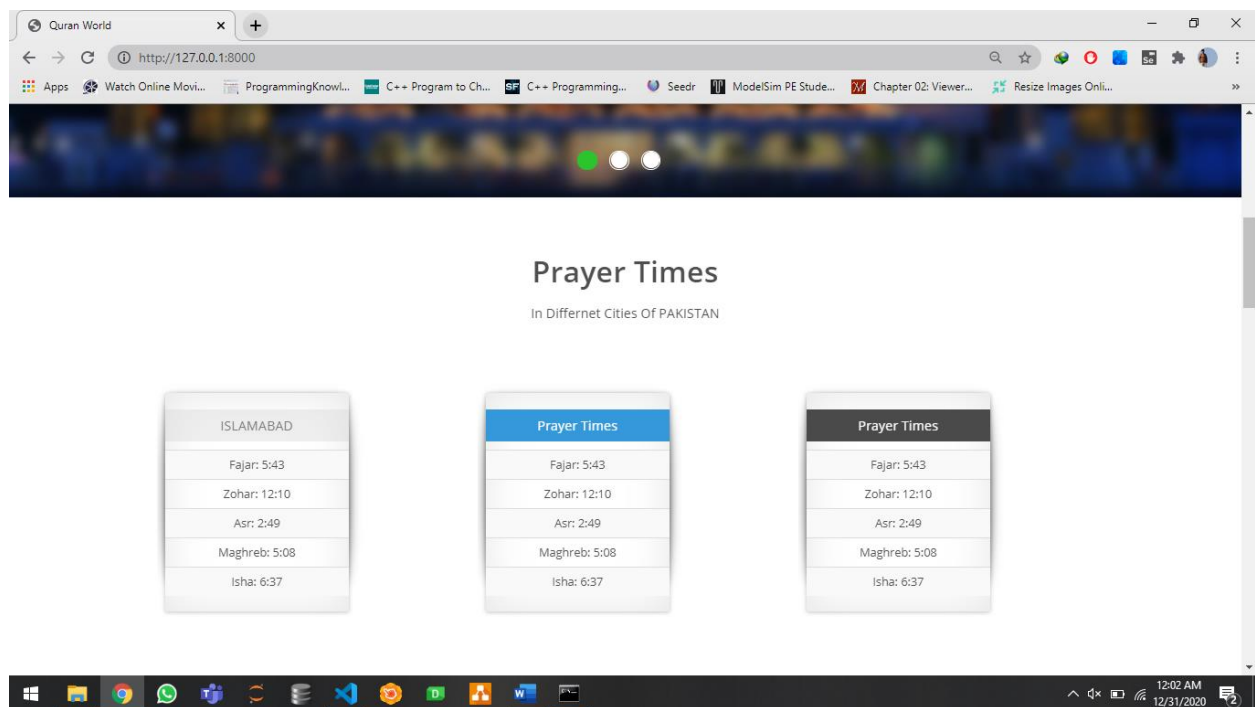
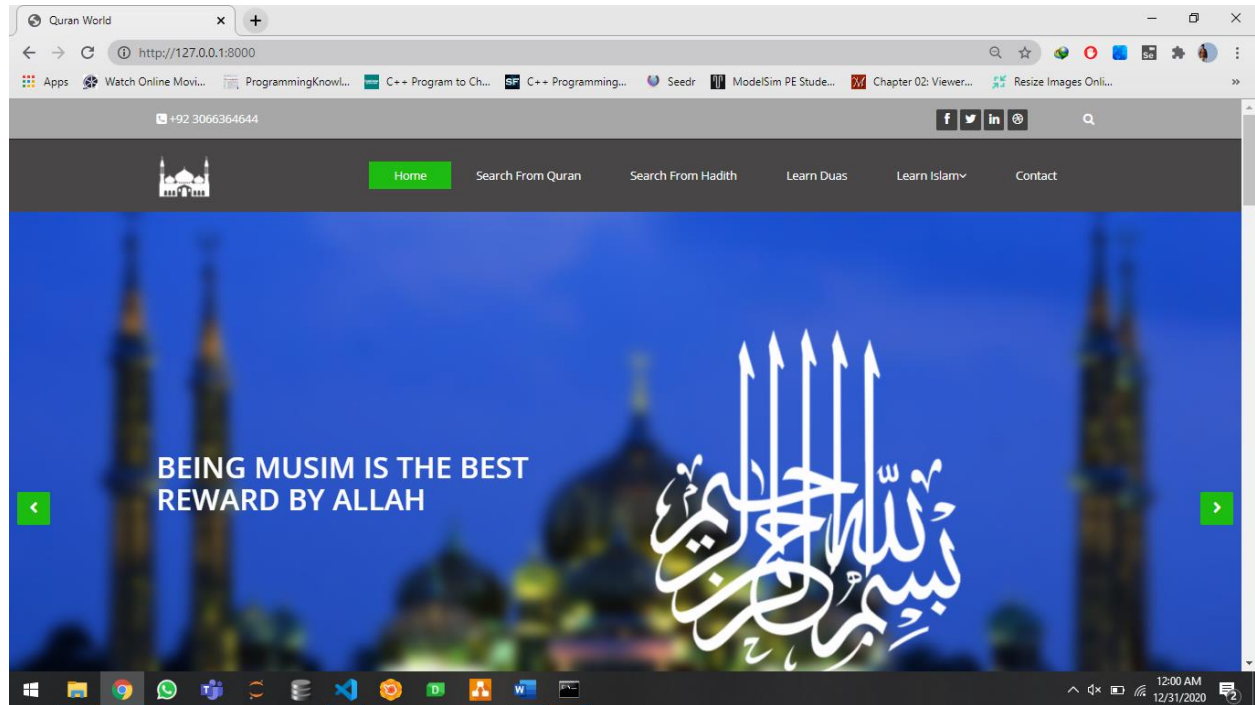
- 1) Search from Quran
User will enter any keyword, phrase. User can search Ayat Kareem from Quran e Pak on the bases of entered token. System will retrieve Ayats on the bases of entered token or phrase. User can search query either by text or voice search option
- 2) Search from Hadith
User will enter any keyword, phrase. User can search Hadith from Bukhari shreef on the bases of entered token. System will retrieve Hadith on the bases of entered token or phrase. User can search query either by text or voice search option
- 3) Check prayer times
User can see prayers timing of different cities of Pakistan
- 4) Learn Duas
User can learn different Duas

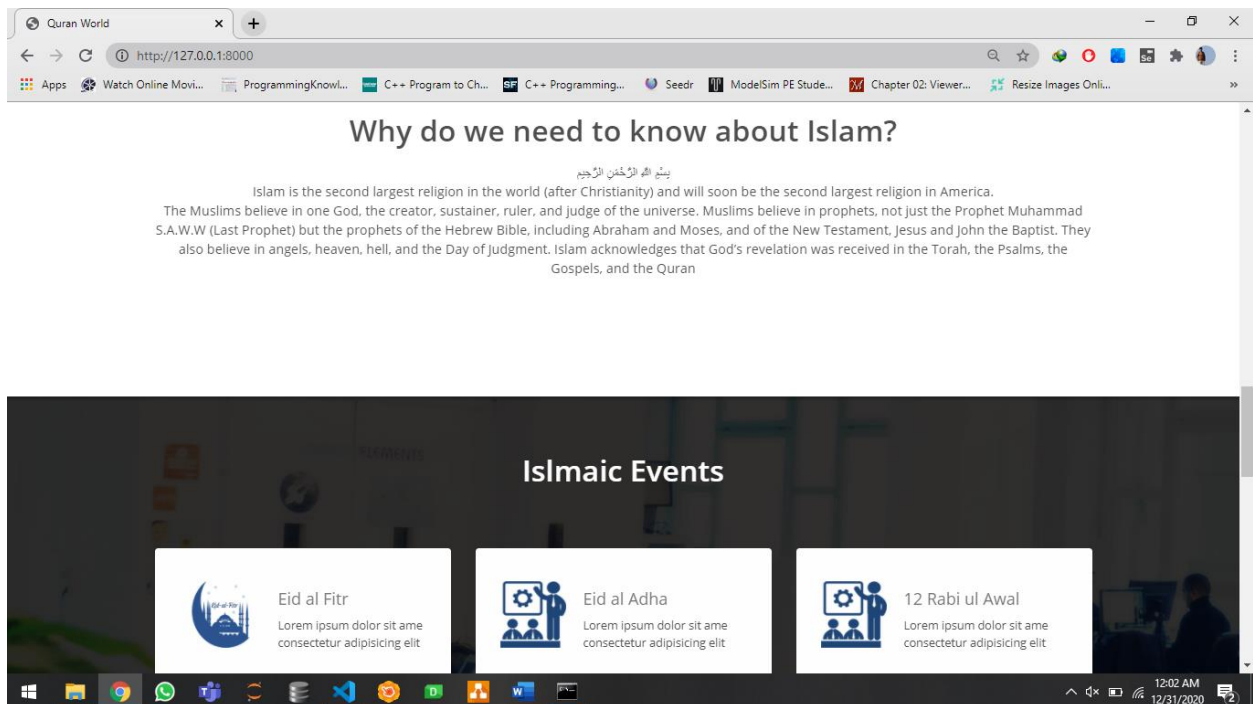
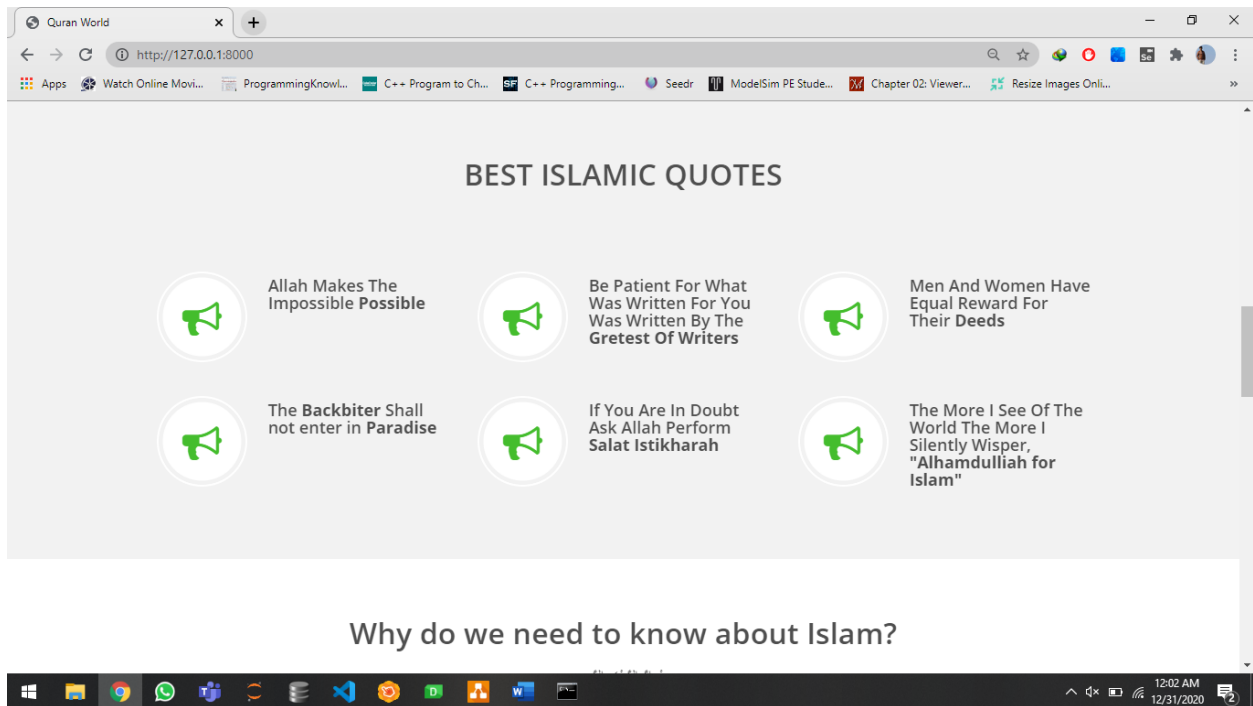


3.3 External interface requirements

3.3.1 User interface

Home page





Search from QURAN page

The screenshot shows the Quran World website with the search query "ALLAH". The results are displayed in a table with columns: Sr No, Arabic Translation, Urdu Translation, English Translation, SURAH, JUZZ, and AYAT.

Sr No	Arabic Translation	Urdu Translation	English Translation	SURAH	JUZZ	AYAT
1	[47 34] إِنَّ الَّذِينَ كَفَرُوا وَهُمْ رَسُولُهُمْ لَا يَسْمَعُونَ لِمَا يُنذَرُ لَهُمْ إِلَّا أَنْ يَأْتِيَهُمُ الْفَتْحُ وَهُمْ لَا يَشْعُرُونَ	[47 34] جو لوگ کافر ہوئے اور خدا کے رسول سے روکے گا [رہے پھر کافر ہی مرگئے خدا ان کو برگر نہیں بخشنے گا]	Those who reject Allah, and hinder (men) from the Path of Allah, then die rejecting Allah - Allah will not forgive them.	Muhammad	26	4580
2	[49 1] يٰۤاَيُّهَا الَّذِينَ اٰمَنُوْا لَا تَقْصُرُوْا عَنْ سَبْحِ اللّٰهِ وَتِلْكَ اٰيَاتُ اللّٰهِ لَعَلَّكُمْ تَتَّقُوْنَ	[49 1] مومنو! (کسی بات کے جواب میں) خدا اور اس کے رسول سے نپلے نہ بول اٹھا کرو اور خدا سے ڈرتے رہو۔ یہ شک [خدا سنا جانتا ہے]	O Ye who believe! Put not yourselves forward before Allah and His Messenger; but fear Allah: for Allah is He Who hears and knows all things.	Al-Hujurat	26	4614
3	[2 165] وَبَيْنَ النَّاسِ مَنْ يُّدْعِيْ اِلٰهًا غَيْرَ اللّٰهِ فَهُمْ يَدْعُوْنَ بِلِقَآءِ اللّٰهِ كَدُّ الْغَيْثِ لَا يَفْقَهُوْنَ شَيْئًا	[2 165] اور بعض لوگ ایسے ہیں جو عین خدا کو شریک (خدا) بناتے اور ان سے خدا کی سی محبت کرتے ہیں۔ لیکن جو ایمان والے ہیں وہ تو خدا ہی کے سب سے زیادہ دوستدار ہیں۔ اور اے کاش ظالم لوگ جو بات عذاب کے وقت دیکھیں گے اب دیکھ	Yet there are men who take (for worship) others besides Allah, as equal (with Allah): They love them as they should love Allah. But those of Faith are overflowing in their love for Allah. If only the unrighteous could see, behold, they would see the	Al-Baqara	2	173

Search from Hadith page

The screenshot shows the Quran World website with the search query "patience". The results are displayed in a table with columns: Sr No, Chapter No, Chapter Name, Chain Index, and Hadith.

Sr No	Chapter No	Chapter Name	Chain Index	Hadith
1	23	Funerals (Al-Janaa'iz) - كتاب الجنائز	30160, 20278, 20020, 11269, 19	Narrated Anas: The Prophet said, "The real patience is at the first stroke of a calamity."
2	56	Fighting for the Cause of Allah (Jihaad) - كتاب الجهاد والسير	20040, 20216, 11014, 18	Narrated Ibn 'Umar: When we reached (Hudabiya) in the next year (of the treaty of Hudabiya), not even two men amongst us agreed unanimously as to which was the tree under which we had given the pledge of allegiance, and that was out of Allah's Mercy. (The sub narrator asked Nafi, "For what did the Prophet take their pledge of allegiance, was it for death?" Nafi replied "No, but he took their pledge of allegiance for patience.")
3	23	Funerals (Al-Janaa'iz) -	20404, 20020,	Narrated Anas bin Malik: The Prophet passed by a woman who was weeping beside a grave. He told her to fear Allah and be patient. She said to him, "Go away, for you have not been afflicted with a calamity like mine." And she did not recognize him.

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Email * Message *

Phone

Company Name

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4. Other Non-functional Requirements

4.1 Performance requirements

1. search results should be displayed < 1 second
2. the delay should be < 0.5 seconds
3. when the player moves in either direction the response should be < 0.2 s
4. prayer timings must be scrapped < 0.1 s

4.2 Safety and Security Requirements

Availability:

the server should be available (security level: high)

Testability:

all the functional requirements are testable in the end (security level: high)

Unambiguous product:

the system should be understandable by other users (security level: medium)

Consistency:

we are approaching each requirement in the same way to ensure that the security measures are applied consistently across the board

4.3 Software quality attributes

4.3.1 Correctness

The system is designed according to the requirements.

4.3.2 Maintainability:

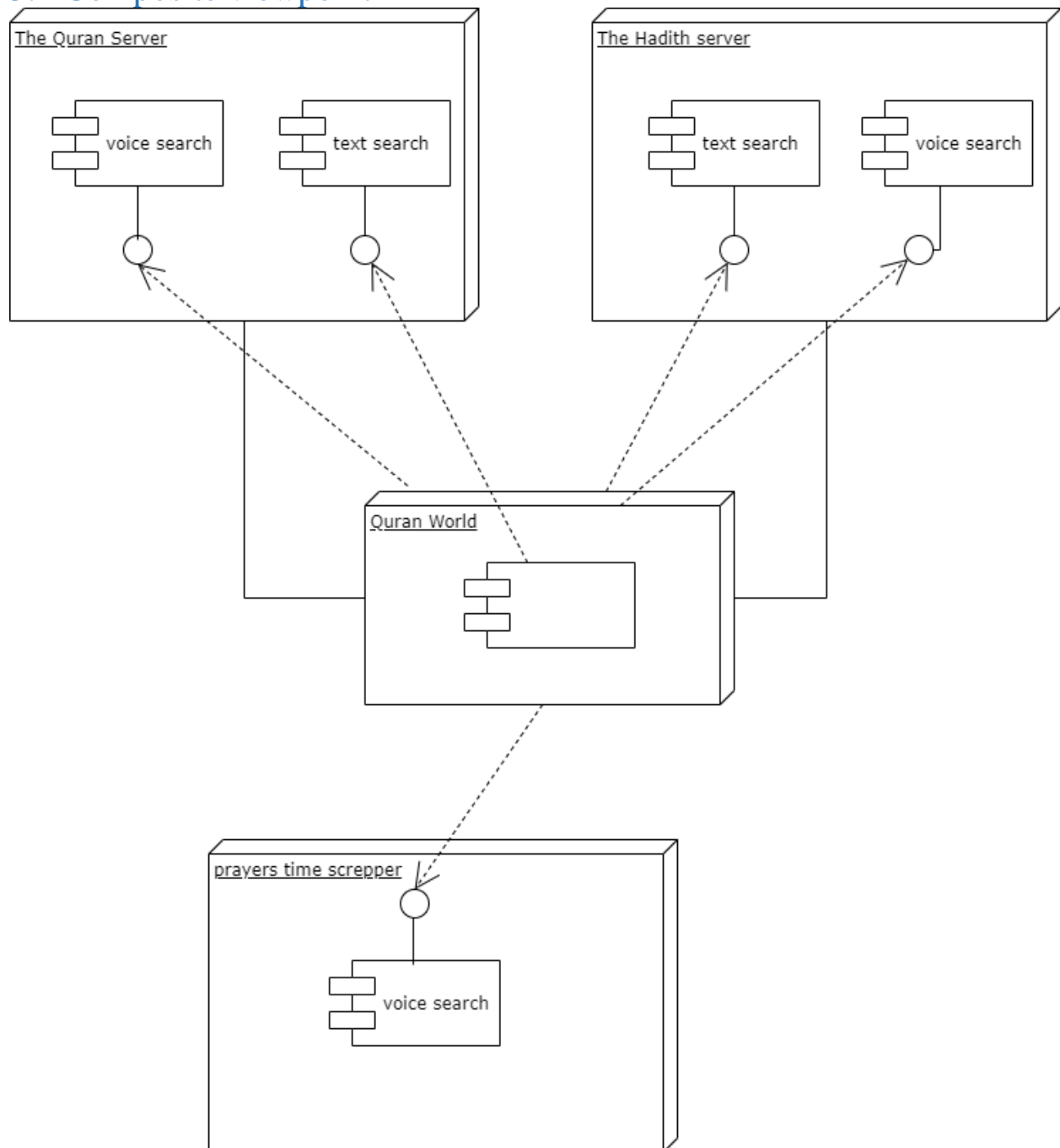
The system is maintainable, we can implement new requirements in system. We can maintain the existing system.

4.3.3 interoperability:

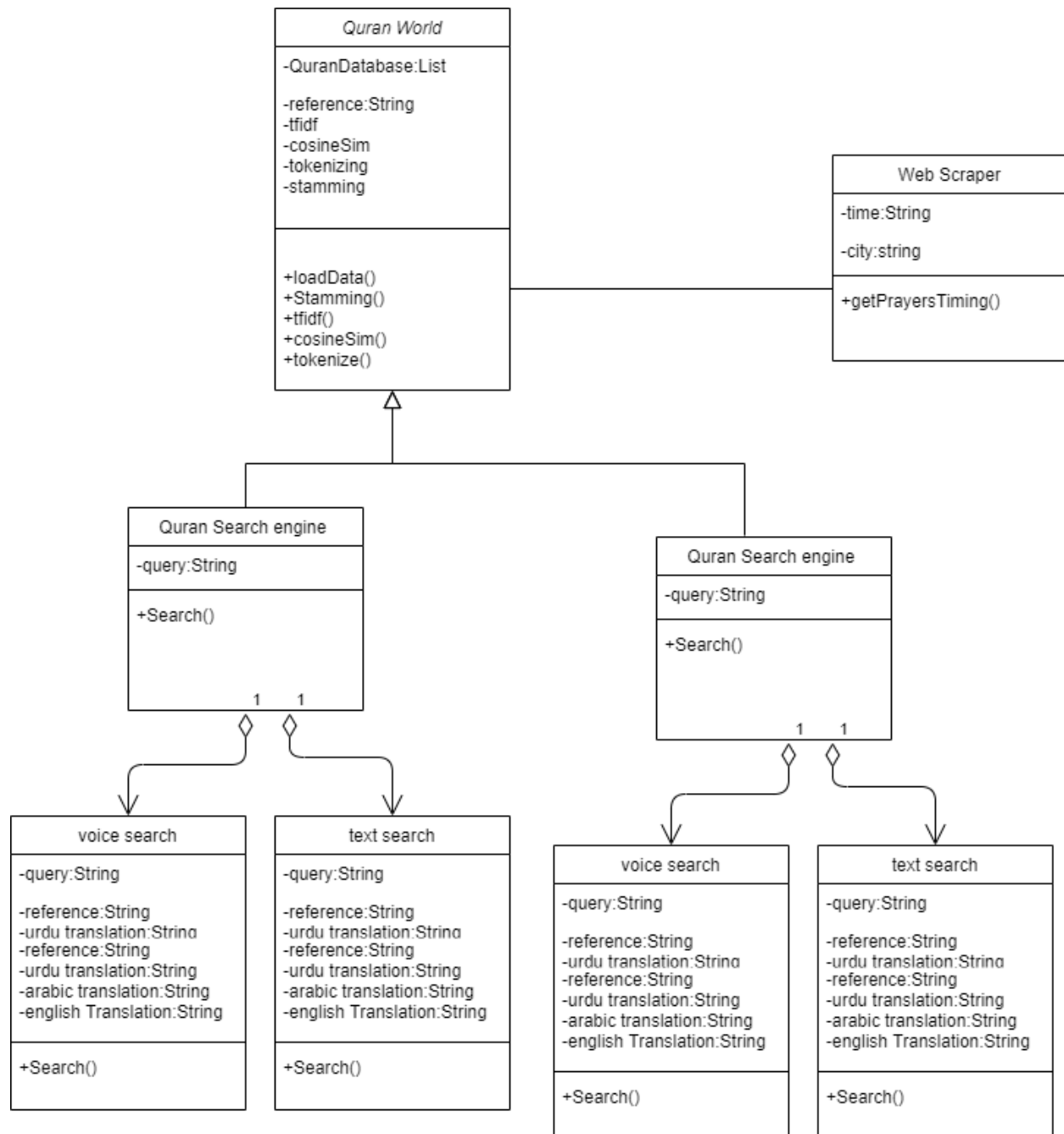
All the modules work independent. But all the modules are able to exchange different information with each other so our system is interoperable

5. Design Description

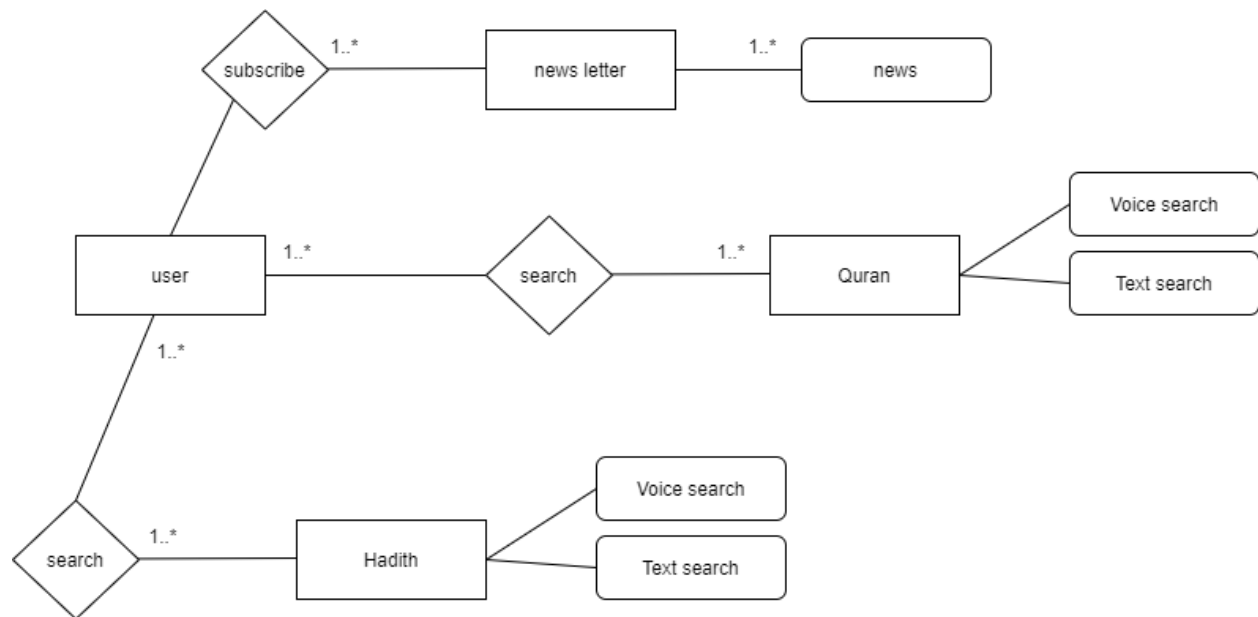
5.1 Composite viewpoint



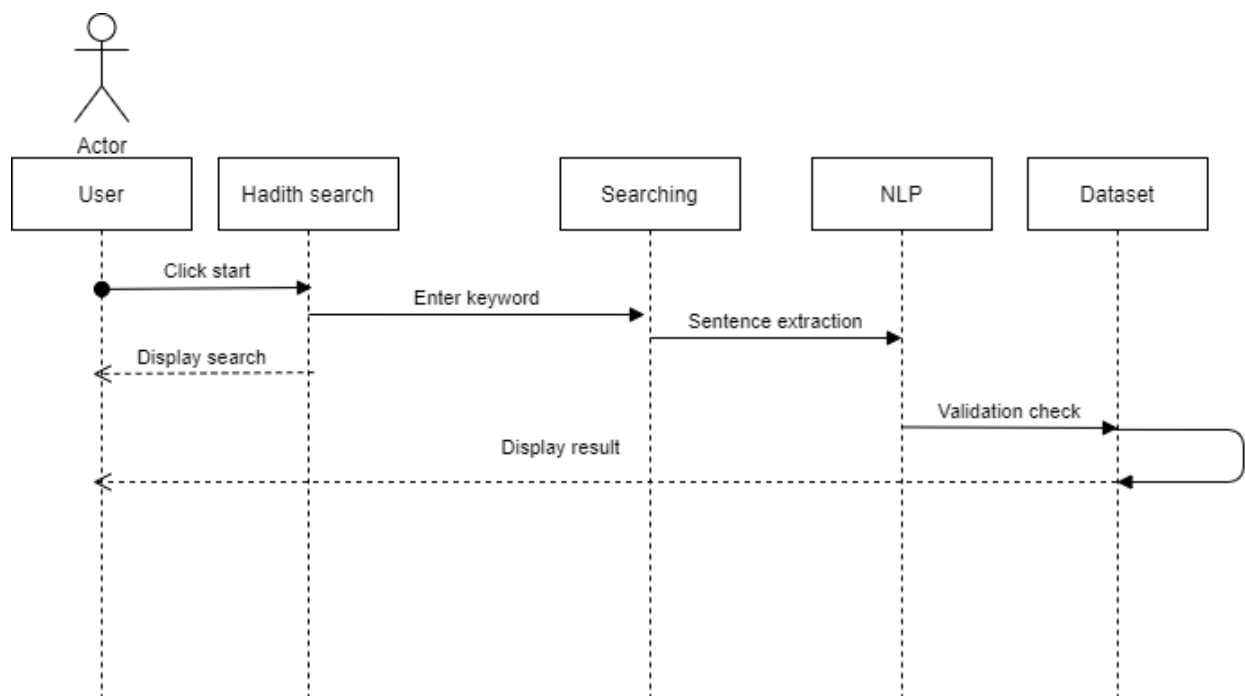
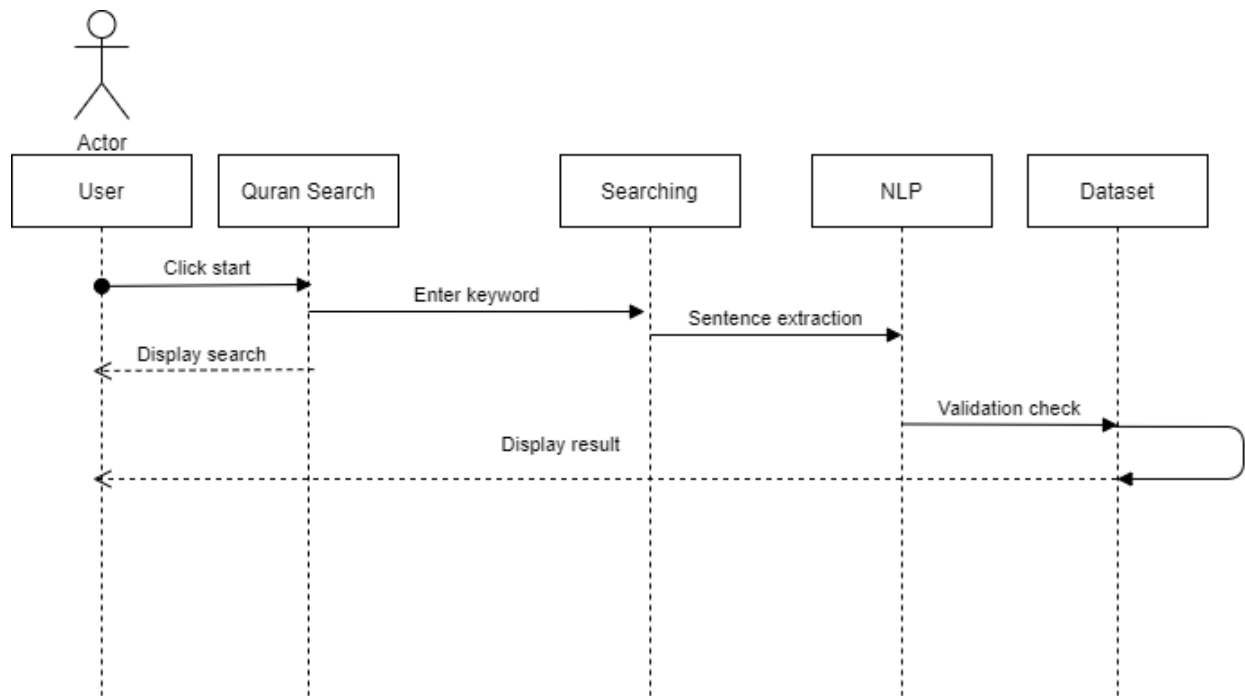
5.2 Logical viewpoint

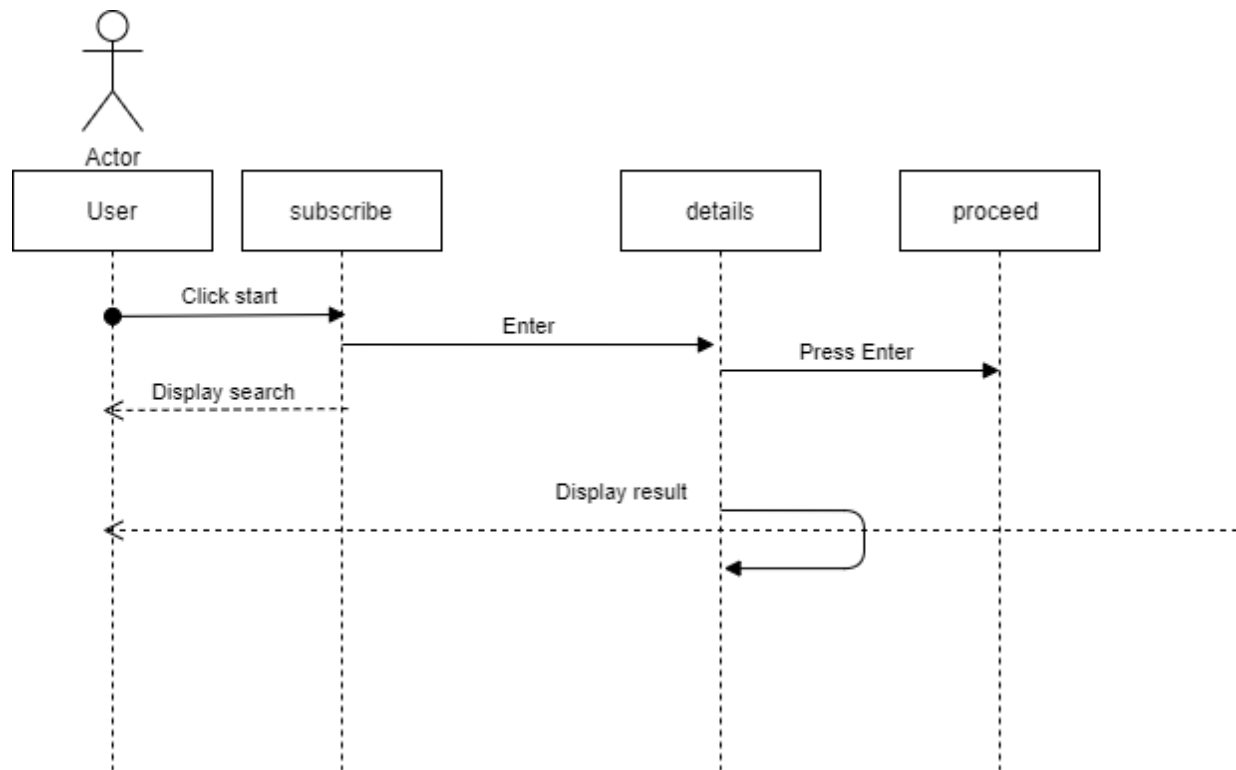


5.3 Information viewpoint

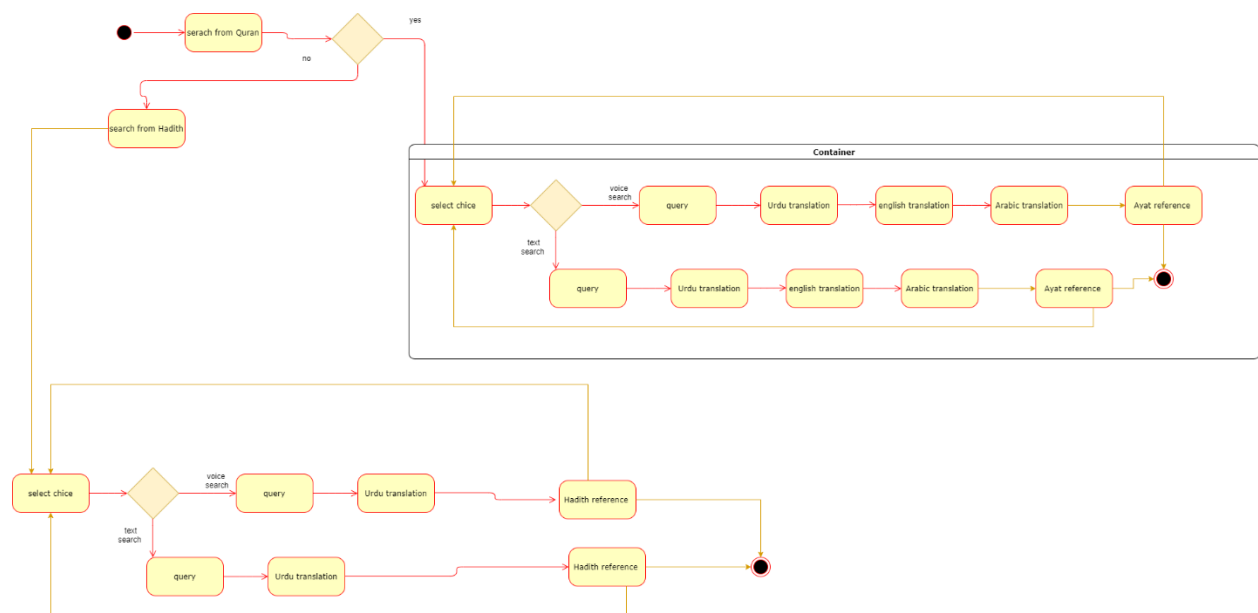


5.4 Interaction viewpoint





5.5 State dynamic viewpoint



5.6 Algorithm viewpoint

