

MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN

INTERNATIONAL INFORMATION TECHNOLOGY UNIVERSITY

COMPUTER ENGINEERING AND INFORMATION SECURITY DEPARTMENT

# MILESTONE 1

DA6: NoSQL Data Bases

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# The Storage of analyses of enrollment for abiturient

## 1) APPLICATION DESCRIPTION

Storage will collect applicant personal data, such as name, date of birth, address, English proficiency test type and test score. The Database will help students with choosing right specialization based on their Unified National Testing score and other parameters. For instance, students can find out min score for Computer Science program in last 5 years and decide should he apply for free tuition or not.

There is an Admin who is responsible for collecting data and creating applicant profile. The administrator can create, read, update and delete data for every applicant and has access to everything.

User only can see the list, which contains information about student name, Unified National Testing score, and specialization where they study/studied. But they can not change anything, they can only see the allowed data.

## 2) Quality Function Deployment (QFD)

Level 1: Normal requirements (product definition):

Database in terms of type of applicant data divided into 4 parts:

**Personal Profile** (first name, family name, date of birth, gender and UNT score)

**Contact Information** (address, email and mobile phone number)

**English proficiency** (test type and test score, it is optional)

**Educational Program** (you should choose between four available programs such as, Software Engineering, Computer Science, Big Data Analysis and Data Science).

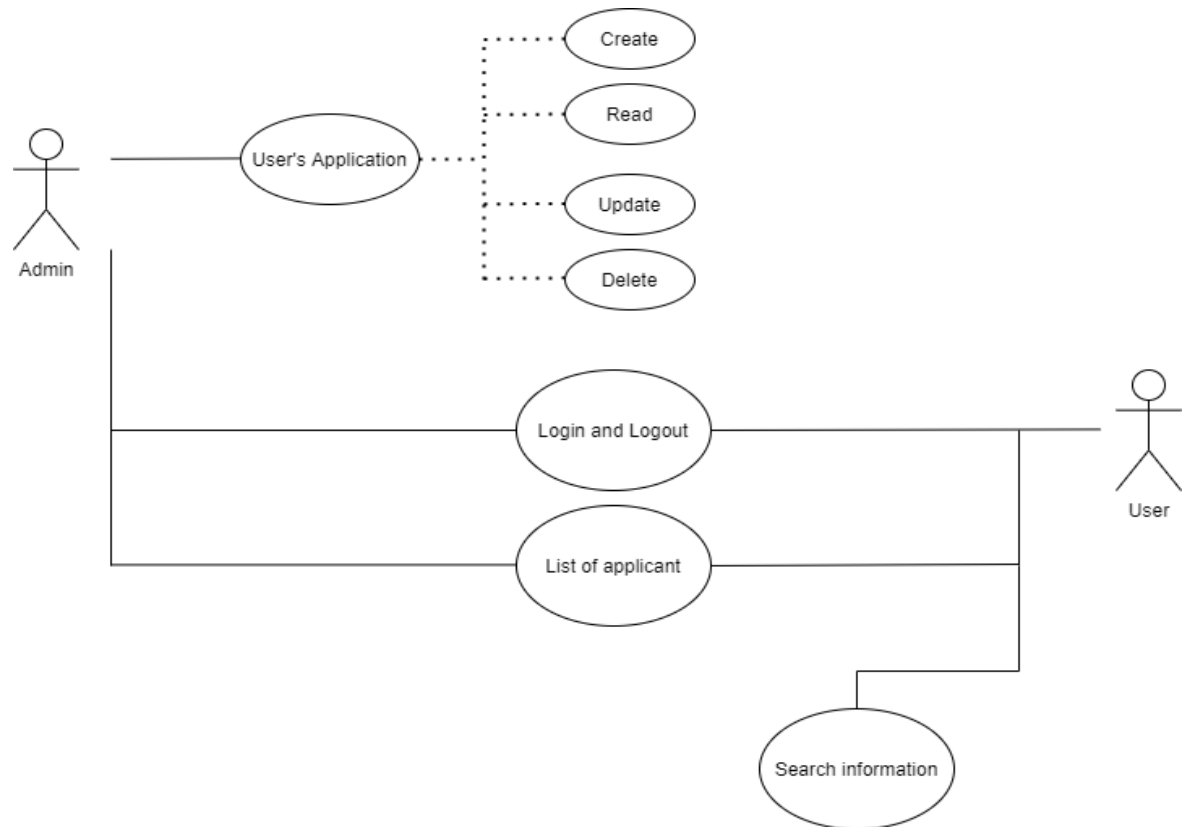
Level 2: Expected requirements (product development):

I want to make two roles for this project. Admin and User will have different opportunities in terms of functionality.

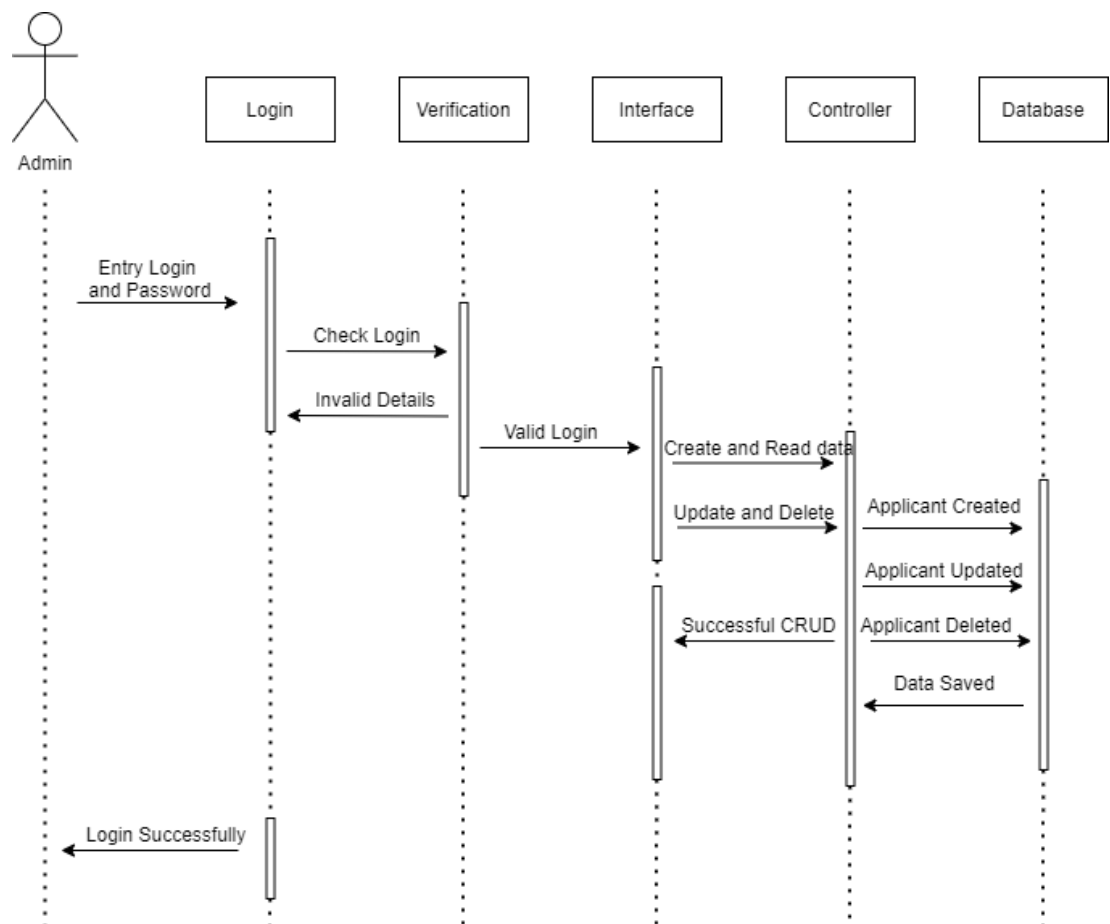
Level 3: exciting requirements (process development):

I would love to make a CRUD system in the web application which going to have a connection with my local MongoDB database. Admin will have an opportunity to change some information and my MongoDB will automatically save that.

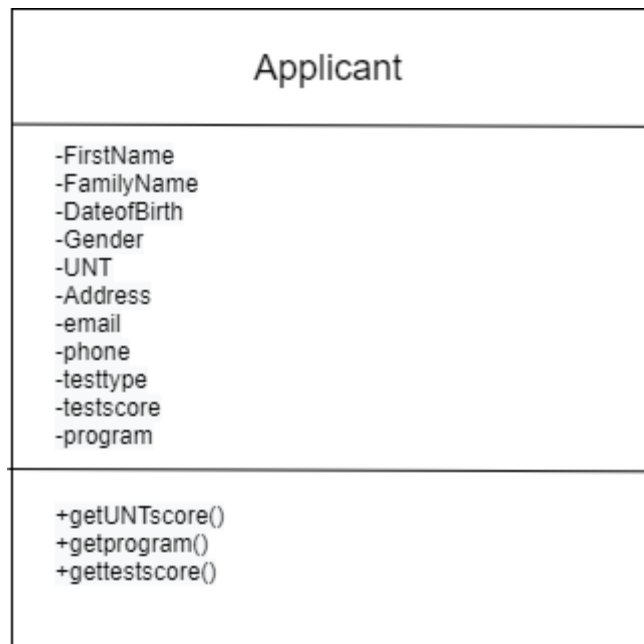
### 3) Use Case Diagram



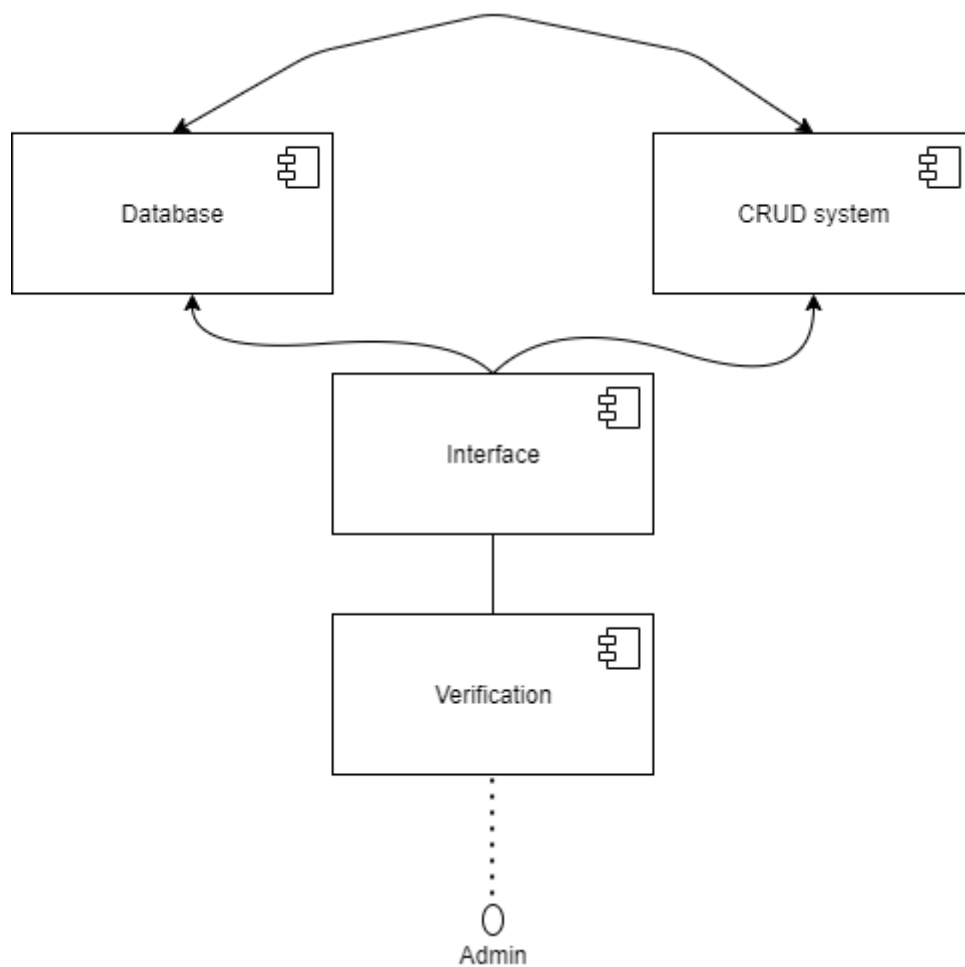
### 4) Sequence Diagram



## 5) Class Diagram



## 6) The component diagram



7) Database.

