

# Software Requirements Specifications

Team 1

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## 1 Non-Functional Requirements

### 1.1 Look and Feel Requirements

#### 1.1.1 Appearance Requirements

- LF1. The application should be visually appealing to anyone using it.
- LF2. The interface should be descriptive, telling the user what to do and how to do it.
- LF3. The query search and the experts should be easily visible.
- LF4. The results displayed should be easily readable.

#### 1.1.2 Style Requirements

- LF5. The overall design should look familiar to other query based applications.

### 1.2 Usability and Humanity Requirements

#### 1.2.1 Ease of Use Requirements

- UH1. The application should be easy to use (easy to navigate, surf, search, get results, etc.) just like an ideal query processing software like google, wikipedia, etc.
- UH2. The overall functionality of the application should be basic, a child of 10 years or older should be able to use it.
- UH3. The application should be designed in a way that query-processing is not difficult.

#### 1.2.2 Personalization and Internationalization Requirements

N/A

#### 1.2.3 Learning Requirements

- UH4. People who are new to query processing software should be able to learn how to use it within 10-20 minutes of full time usage.

#### 1.2.4 Understandability and Politeness Requirements

- UH5. The product shall use symbols and words that are naturally understandable by the user community.

#### **1.2.5 Accessibility Requirements**

N/A

### **1.3 Performance Requirements**

#### **1.3.1 Speed and Latency Requirements**

- PR1. The application should be able to present the results of a search requested by the user within five seconds of the request being made.
- PR2. The application should be respond within three seconds to a user command other than a search (open, close, etc.).

#### **1.3.2 Safety-Critical Requirements**

- PR3. The application should project proper lighting on the screen (prevent seizures and blindness).

#### **1.3.3 Precision or Accuracy Requirements**

- PR4. The software shall provide at most 10 different movies when a query search is made.
- PR5. The software shall perform the exact search the user requests. It shall not assume a different spelling (i.e. to correct a spelling mistake, etc.).

#### **1.3.4 Reliability and Availability Requirements**

- PR6. The product should be usable for 24 hours per day, 365 days per year.

#### **1.3.5 Robustness or Fault-Tolerance Requirements**

N/A

#### **1.3.6 Capacity Requirements**

- PR7. The application shall allow at most one user to operate the software.
- PR8. The application shall permit the user to make a query for only one particular movie at a time.

#### **1.3.7 Scalability or Extensibility Requirements**

N/A

#### **1.3.8 Longevity Requirements**

N/A

## **1.4 Operational and Environmental Requirements**

### **1.4.1 Expected Physical Environment**

- OE1. The product shall run on any android platform device along with computers, tablets, PCs, and cellphones (other devices that support Android).
- OE2. The product will be user friendly as it will allow them to use the application indoors and outdoors provided they have a wifi connection.

### **1.4.2 Requirements for Interfacing with Adjacent Systems**

N/A

### **1.4.3 Productization Requirements**

N/A

### **1.4.4 Release Requirements**

N/A

## **1.5 Maintainability and Support Requirements**

### **1.5.1 Maintenance Requirements**

- MS1. The software should easily be modifiable just in case the user decides to add more functionality to the application.

### **1.5.2 Supportability Requirements**

- MS2. The application should be able to be used in various platforms such as Windows, Macintosh, and Android.
- MS3. The application will have a help section within the software to allow the user to search for a solution to their problems (connectivity, query processing, etc.).

### **1.5.3 Adaptability Requirements**

N/A

## **1.6 Security Requirements**

### **1.6.1 Access Requirements**

### **1.6.2 Integrity Requirements**

- SR1. The application shall use encryption to protect transactions being sent from the user to the client.
- SR2. The application shall make sure queries are made with proper spell check (provide the user with a "did you mean" suggestion, etc.).
- SR3. The application shall protect itself from viruses and other malware attacks (prompting the computer to virus scan, etc.).

### **1.6.3 Privacy Requirements**

- SR4. The application should protect the identity of the person using the software. It shall not pass personal information (if any) to any unknown party without the explicit permission of the user.

### **1.6.4 Audit Requirements**

N/A

### **1.6.5 Immunity Requirements**

N/A

## **1.7 Cultural and Political Requirements**

### **1.7.1 Cultural Requirements**

- CP1. The application should not use symbols, text, or media which debases a race, culture, or a political landscape.

### **1.7.2 Political Requirements**

- CP2. The application shall use experts primarily based on North America (Canada or the United States).

## **1.8 Legal Requirements**

### **1.8.1 Compliance Requirements**

- LR1. The application should abide by any privacy and copyright laws.
- LR2. The use of experts shall be done, whilst the owner permits its free usage.

### **1.8.2 Standards Requirements**

N/A