

# Stone Identification App Software Requirements Specification

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# **1 Functional Requirements**

## **1.1 Business Event: User wants to identify a rock**

### **1.1.1 Viewpoint: Everyday User**

- The application will allow the user to input information about texture, colour, and/or size of a rock.
- The application will estimate the type of rock based on user-inputted texture, colour, and/or size.
- The application will suggest rocks based on the user's location.

### **1.1.2 Viewpoint: Developer**

### **1.1.3 Viewpoint: Security Expert**

## **1.2 Business Event: User wants to update the database**

### **1.2.1 Viewpoint: Everyday User**

- The every day user will not be able to modify the database.

### **1.2.2 Viewpoint: Developer**

- The developer will be able to update the database with new information

### **1.2.3 Viewpoint: Security Expert**

- The security expert must be able to manage developer access to the database

## **1.3 Business Event: User wants to save a rock they've found**

### **1.3.1 Viewpoint: Everyday User**

- The user will be able to add a rock from their matched list to a "Found Rocks" list.

### **1.3.2 Viewpoint: Developer**

- The developer will not be able to access an individual user's found rock list.

### **1.3.3 Viewpoint: Security Expert**

- The security expert shall ensure that only the user can see their own rock list.

## **1.4 Application identifies cost per weight**

### **1.4.1 Application**

- The application shall show the cost of the rock according to the weight of the rock.
- The application shall show the cost per gram of the rock.

### **1.4.2 Everyday User**

- The user shall be able to enter the weight of the rock found in the application.
- The users shall be provided with possible places to sell rocks found.

## **1.5 Application displays image**

### **1.5.1 Application**

- The application shall display images of possible matches for rocks according to user input.

### **1.5.2 Everyday User**

- The user shall be able to view the image of the final rock match found.

## **1.6 User searches for rock name**

### **1.6.1 Application**

- The application shall search for the name of the rock according to the categories the user chooses.
- The application shall eliminate rocks that do not match the criteria as the user specifies more about the rock found.
- The application shall be able to access the database to find information about the possible rock.

### **1.6.2 Everyday User**

- The user shall be able to view name, location and properties of rock match found.