**VISHWAKARMA INSTITUTE OF INFORMATION TECHNOLOGY, PUNE**

**INFORMATION TECHNOLOGY DEPARTMENT**

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**SRS**

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**Group number: 60**

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**Title : Women Security Bracelet**

**Requirement Analysis:**

**Problem Statement-**

To develop a easy to carry system which will work automatically without any manual inputs to provide the security for women.

**Functional Requirements:**

**User of the Bracelet:-**

1.Log in with already provided unique number using mobile application.

2.Add the contact numbers of friends/relatives on the application to ask help for in an emergency.

3.Save button on System to write those numbers into GSM.

4.Reset button on System to reset all previously saved numbers into GSM.

5.System would Identify the critical situation and normal situation.

6.System would get the emergency help when SOS button is pressed manually.

7.System would get the emergency help automatically when victim is under attack.

8.System would alert the vicinity people.

9.System would Blink the LED for 10 secs when critical situation detected.

10.Track the nearby victim/friend/relatives in an emergency situation using google map.

**Other than victim/ User of the Bracelet:-**

1.Log in with verified mobile number.

2.Track the nearby victim/friend/relatives in an emergency situation using google map.

**External Interface Specifications:**

**1.User Interface:-**

**1.2 User of the Bracelet:-**

1.Login.

2.Add the contact numbers of friends/relatives .

3.Tracking the victim using google map.

**1.2 Other than victim/ User of the Bracelet:-**

1.Login.

2.Tracking the victim using google map.

**2.Database:-**

Firebase Cloud will be used for the realtime database storage.

**3. Google Maps API** will be used for tracking the user.

**4.Hardware Components**

Arduino, GSM, GPS, V3 Module, 3 Axis-Accelerometer, Heartbeat Sensor, Body Temperature sensor, LED

**Technical Specification:**

1.If sim card provided goes out of network then system would not be able to ask for help.