

# SecureHer

## A guidance for Women's Security

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# UseCase-TestCase Presentation

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## Sub System: **User Access Management**

- User Signup
- User Login
- Police or NGO Signup
- Police or NGO Login

## Sub System: **Emergency SOS Alert**

- Request Emergency Help
- Upload Evidence
- Notify Trusted Contacts and Verify Victim Status
- Track Assigned Agency's Location

## Sub System: **Police and NGO's Actions**

- Check SOS Alerts
- Analyzing Situation and Assigning Force
- Taking Actions on Assigned SOS Case

## Sub System: **Report and Map Management**

- Report an Incident
- Generate Heat Map
- Tracking and Alerts
- Search on Map
- View Report

## Sub System: **Manage User Information**

- Manage Trusted Contacts and Safe Locations
- Manage App Settings

## Use Case: User Signup



# Description of User Signup

**Scenario:** New users create an account with details.

**Preconditions:** App is installed.

**Actors:** User

**Steps:**

- User opens app, enters signup details, clicks 'Signup'.
- System validates; account created if valid, error shown if not.

# Test Cases of User Signup

## Example

**Name:** Valid Signup for Adult

**Description:** Verify signup succeeds with valid details.

## Example

**Name:** Password Mismatch

**Description:** Verify signup fails if passwords don't match.

## Use Case: User Login

# Description of User Login

**Scenario:** Users log into their account.

**Preconditions:** App installed, valid account.

**Actors:** User

**Steps:**

- Open app and go to login.
- Enter phone and password.
- Click 'Login'.
- Verify credentials.

# Test Cases of User Login

## Example

**Name:** Login - Valid Credentials

**Description:** Verify login with valid credentials.

## Example

**Name:** Login - Invalid Phone

**Description:** Verify login fails with unregistered phone.

## **Use Case: Police or NGO Signup**

# Description of Signup for Police or NGO

**Scenario:** Workers register for the app.

**Preconditions:** On signup page.

**Actors:** Police/NGO Worker

**Steps:**

- Navigate to signup and select role.
- Enter registration and personal details.
- Set password and submit.

# Test Cases of Signup for Police or NGO

## Example

**Name:** Police Valid Signup

**Description:** Verify valid police signup.

## Example

**Name:** NGO Valid Signup

**Description:** Verify valid NGO signup.



## **Use Case: Police or NGO Login**

# Description of Police or NGO Login

**Scenario:** Police or NGO log in to access features.

**Preconditions:** Valid account, on login screen.

**Actors:** Police or NGO

**Steps:**

- Open app, select 'Police or NGO Login'.
- Enter email and password.
- Click 'Login'.

# Test Cases of Responder Login

## Example

**Name:** Valid Credentials

**Description:** Verify login with valid email and password.

## Example

**Name:** Incorrect Password

**Description:** Verify login fails with wrong password.

## **Use Case: Request Emergency Help**

# Description of Request Emergency Help

**Scenario:** User requests for emergency help.

**Preconditions:** User is logged in on the home page.

**Actors:** User

**Steps:**

- Select 'Ask for Emergency Help'.
- Redirect to emergency help page.
- Option to upload evidence displayed.

# Test Cases of Emergency Help Request

## Example

**Name:** Valid Request

**Description:** Verify successful emergency help request.

## Example

**Name:** Network Unavailable

**Description:** Verify error on no network connectivity.

## **Use Case: Upload Evidence**

# Description of Upload Evidence

**Scenario:** User uploads evidence for help request.

**Preconditions:** On emergency help page.

**Actors:** User

**Steps:**

- Select 'Upload Evidence'.
- Choose evidence type and upload/record it.
- Add more evidence if needed.
- Submit uploaded evidence.



# Test Cases of Upload Evidence

## Example

**Name:** Upload Video

**Description:** Verify user can upload a video file.

## Example

**Name:** Submit Without Evidence

**Description:** Verify that the user is prompted to upload at least one type of evidence if none is selected.

## **Use Case: Notify Trusted Contacts and Verify Victim Status**

# Description of Notify Trusted Contacts and Verify Status

**Scenario:** System notifies victim's trusted contacts after SOS alert; app users can verify status.

**Preconditions:** SOS alert triggered by victim.

**Actors:** System, Trusted Contacts

**Steps:**

- System sends SMS to all trusted contacts with location and verification link.
- App users receive in-app notification in their notification section.
- App users can verify victim's status from the notification page.

# Test Cases of Notify Trusted Contacts and Verify Victim Status

## Example

**Name:** Notify Trusted Contacts

**Description:** Verify SMS notification is sent to trusted contacts.

## Example

**Name:** In-App Notification - Verification Action by Trusted Contact

**Description:** Verify that an app user can verify the victim's status from the notification page.

## **Use Case: Track Assigned Agency's Location**

# Description of Track Assigned Agency's Location

**Scenario:** User tracks agency's location for assistance.

**Preconditions:** Evidence submitted and verified.

**Actors:** User, System

**Steps:**

- System tracks assigned agency's location.
- Provides real-time location info to the user.
- User monitors agency until arrival.

# Test Cases of Tracking Location

## Example

**Name:** Valid Location Tracking

**Description:** Verify user views agency's real-time location after submission.

## Example

**Name:** Tracking Failure - Not Verified

**Description:** Verify no tracking if evidence not verified.

## **Use Case: Check SOS Alerts**



# Description of Check SOS Alerts

**Scenario:** Police/NGO can view SOS alerts on map/list. Forwarded alerts are star-marked; handled alerts are green. Nearby alerts are prioritized.

**Preconditions:** Logged in as police or NGO.

**Actors:** Police, NGO

**Steps:**

- Open Women Security app.
- Go to 'SOS Alerts' section.
- View alerts on map/list sorted by proximity and severity.
- Hover over alerts for brief descriptions.
- Click an alert for detailed info.

# Test Cases of Check SOS Alerts

## Example

**Name:** SOS Alerts Sorted

**Description:** Verify SOS alerts are displayed by severity and proximity.

## Example

**Name:** Star-Marked SOS Alert

**Description:** Verify forwarded SOS alerts are marked with a star.

## **Use Case: Analyzing Situation and Assigning Force**

# Description of Analyzing Situation and Assigning Force

**Scenario:** Police/NGO selects an SOS alert, analyzes info, and assigns responders. Unavailable cases can be forwarded. Alert turns green if handled.

**Preconditions:** Logged in as police/NGO/manager.

**Actors:** Police, NGO

**Steps:**

- Open Women Security app.
- Navigate to SOS Alerts.
- Select an SOS alert.
- Analyze details and assign responders.
- Confirm action to handle or forward.

# Test Cases of Analyzing Situation and Assigning Force

## Example

**Name:** Assign Police Force

**Description:** Verify manager assigns police to handle a high severity case.

## Example

**Name:** Forward SOS Alert

**Description:** Verify SOS alert is forwarded to another thanas/NGOs if out of scope.

## **Use Case: Taking Actions on Assigned SOS Case**

# Description of Taking Actions on Assigned SOS Case

**Scenario:** Assigned team takes action on an SOS case by tracking and contacting the victim.

**Preconditions:** SOS case assigned by manager.

**Actors:** Police, NGO, Medical Team

**Steps:**

- Team logs in and selects SOS case from 'Assigned Cases'.
- System shows real-time victim location and contact info.
- Team contacts victim or trusted contacts as needed.
- Team marks case 'Solved' or forwards to Investigation Team.

# Test Cases for Taking Actions on SOS Case

## Example

**Name:** Track Victim and Contact Trusted Contacts

**Description:** Verify team can track and contact victim and trusted contacts.

## Example

**Name:** Mark Case as Solved

**Description:** Verify team can mark the case as solved after actions.



## **Use Case: Report an Incident**

# Description of Report an Incident

**Scenario:** Users report incidents with optional evidence. Police and NGOs can submit cases.

**Preconditions:** User is logged in.

**Actors:** User, Police, NGO

**Steps:**

- User opens app, navigates to 'File a Report'.
- User selects report type, fills in details, uploads evidence.
- User chooses report and evidence visibility, then submits.
- System saves report with settings; confirmation is displayed.

# Test Cases for Report an Incident

## Example

**Name:** Public Report with Private Evidence

**Description:** Verify a public report with private evidence is viewable only by authorized personnel.

## Example

**Name:** Complain Report with SOS Code

**Description:** Verify that the user can link a report to a previous SOS activity using a code.

## **Use Case: Generate Heat Map**

# Description of Generate Heat Map

**Scenario:** System creates a heat map of incidents and SOS locations, highlighting risk zones.

**Preconditions:** Incident data available.

**Actors:** System

**Steps:**

- System retrieves and plots data by severity.
- High-risk areas highlighted; user's location shown.

# Test Cases of Generate Heat Map

## Example

**Name:** Display Heat Map

**Description:** Verify system shows incidents/SOS locations accurately.

## Example

**Name:** Highlight High-Risk Zones

**Description:** Verify system highlights high-density risk zones.

## **Use Case: Tracking and Alerts**

# Description of Tracking and Alerts

**Scenario:** Tracks user location, triggers alerts in risky zones.

**Preconditions:** Trusted contacts set, tracking on.

**Actors:** System, User

**Steps:**

- Tracking enabled; alerts trigger in risky zones.
- Alerts stop when user marks safe or exits zone.



# Test Cases of Tracking Test Cases

## Example

**Name:** Alert in Risky Zone

**Description:** Verify alert triggers in risky zones.

## Example

**Name:** Stop Alerts on Safe Mark

**Description:** Verify alerts stop when marked safe.

## Use Case: Search on Map

# Description of Search on Map

**Scenario:** System allows users to search locations, incidents, or persons on a map.

**Preconditions:** Incident and location data available.

**Actors:** System, User

**Steps:**

- User searches for location, incident type, or person.
- System shows results as pinpoints on the map and a list of reports.

# Test Cases of Search on Map

## Example

**Name:** Search by Location

**Description:** Verify pinpoints and report list display for a specified location.

## Example

**Name:** Search by Incident Type

**Description:** Verify map shows incidents of a specific type with descriptions.

## **Use Case: View Report**

# Description of View Report

**Scenario:** Users view reports with details based on their role.

**Preconditions:** User logged in; reports accessible.

**Actors:** System, User, Police, NGO

**Steps:**

- User selects report from list or map pinpoint.
- System shows brief details; full details if Police or NGO.
- Regular users view public reports only.

# Test Cases of View Report

## Example

**Name:** View Full Report as Police

**Description:** Verify police users can view full report with evidence.

## Example

**Name:** Regular User - Private Report

**Description:** Verify regular users see restricted message for private reports.

## **Use Case: Manage Trusted Contacts and Safe Locations**



# Description of Manage Trusted Contacts and Safe Locations

**Scenario:** Users manage trusted contacts and safe locations.

**Preconditions:** User is logged in.

**Actors:** User

**Steps:**

- Open the app and go to 'Trusted Contacts and Safe Locations'.
- Add, update, or delete trusted contacts.
- Add, update, or delete safe locations.
- Display safe locations on the main map.

# Test Cases of Manage Trusted Contacts and Safe Locations

## Example

**Name:** Add Safe Location

**Description:** Verify that the user can add a safe location by selecting it from the map

## Example

**Name:** Update Trusted Contact

**Description:** Verify user can update a trusted contact's information.

## **Use Case: Manage App Settings**

# Description of Manage App Settings

**Scenario:** Users customize settings (personal info, alerts, privacy).

**Preconditions:** User is logged in.

**Actors:** User

**Steps:**

- Open the app and go to 'Settings'.
- Update personal info.
- Configure SOS alerts.
- Adjust location sharing and privacy settings.
- Logout or delete account.
- Save changes and confirm.

# Test Cases of Manage App Settings

## Example

**Name:** Update Personal Information

**Description:** Verify user can update info (name, phone, email).

## Example

**Name:** Configure SOS Alert Preferences

**Description:** Verify user can adjust SOS alert settings.

# Thank You!

Questions? Feel free to ask.