**User Test cases**

**Test Instructions for User**

You will be testing the HomeGuard app to evaluate its usability and effectiveness in providing home security and features such as real-time alerts, video recordings and communication tools.

**What to Expect**:

* You will be asked to perform specific tasks using the app.
* There is no “right” or “wrong” way to complete the tasks, we want to learn how you use the app.
* If you encounter any issues, please let us know during the test.

**Important Notes**:

* You will be using a prototype version of the app.
* Any notifications or alerts you receive are part of the test scenario.
* Feel free to ask questions if anything is unclear.

**Confidentiality**:

* Your feedback will be recorded for analysis but will remain anonymous.
* Please interact naturally with the system, just as you would in a real-life situation.

**Aftermath of Tests:**

* A test is considered successful if the result aligns with the expected outcome
* Participants will be asked to share their feedback on their experience, including ease of use, quality of features and any areas for improvement.
* We can learn from this feedback to further guide development of the HomeGuard system.

**Test Cases**

**Test Case 1: Real-Time Alerts and Notifications**

**Purpose**: Test if the system delivers immediate alerts and if the notifications are clear and concise.  
**Instructions**:

1. Wait for a notification triggered by motion detection.
2. Open the notification to view the alert.
3. Check the accompanying screenshot and description.
4. Describe what you would do next based on the information provided.

**Expected Outcome**:

* Notification is received instantly.
* The screenshot and description are clear and relevant to the action.
* Participant feels informed and confident in making a decision based on the alert.

**Test Case 2: Pre-Recorded Messages**

**Purpose**: Test if pre-recorded responses are convenient for non-verbal interaction.  
**Instructions**:

1. Navigate to the settings and record a pre-set message (e.g. “Please leave the package at the door”).
2. When a simulated visitor appears at the door, select the recorded message to respond.

**Expected Outcome**:

* Participant can easily record and use pre-set messages.
* Pre-recorded responses feel convenient and effective for managing interactions anonymously.

**Test Case 3: Two-Way Communication**

**Purpose**: Test if participants can communicate effectively with visitors in real-time.  
**Instructions**:

1. Open the live feed.
2. Use the microphone to speak to the visitor.

**Expected Outcome**:

* Audio quality is clear and communication is seamless.
* Participant feels comfortable talking to visitors remotely.

**Test Case 4: Voice Changer Functionality**

**Purpose**: Test if the voice changer provides anonymity during interactions.  
**Instructions**:

1. Navigate to the settings and select a voice preset.
2. Go to the live cam feed and activate the voice changer via toggle.
3. Use the microphone to respond to a visitor using the modified voice.

**Expected Outcome**:

* Participant can easily activate and use the voice changer.
* Voice changer provides anonymity, increasing the participant's confidence and feeling of safety.

**Test Case 5: Reviewing Recordings and Notifications**

**Purpose**: Ensure users can easily access and review past activity.  
**Instructions**:

1. Go to the notifications page and review any past alerts.
2. Navigate to the recordings page and browse through video recordings from previous days.

**Expected Outcome**:

* Participant can quickly locate and view past notifications and recordings.
* Information from recordings (e.g. timestamps) is easy to interpret.