

# User and Roles

## **Patients with Dementia and Alzheimer's:**

**Role:** Primary users of the mobile application, engaging in medication tracking and cognitive games tailored to their needs.

**Responsibilities:** Participate in cognitive exercises, adhere to medication schedules, and share feedback on app usability and effectiveness.

## **Caregivers and Family Members:**

**Role:** Secondary users with access to the web portal, playing a supportive role in managing the patient's care.

**Responsibilities:** Monitor patients' medication adherence, cognitive exercise progress, and real-time location. Set up medication reminders and safety alerts.

## Healthcare Professionals:

**Role:** Advisory users providing medical oversight and input into the app's content, especially for cognitive activities and medication insights.

**Responsibilities:** Recommend cognitive exercises based on patient's condition, review medication schedules, and provide guidance to caregivers through the platform.

## Project Team Members (Developers, Designers, Content Creators):

**Role:** Responsible for the iterative design, development, and maintenance of Zuno across both mobile and web platforms.

**Responsibilities:** Collaborate on feature development, implement user feedback, ensure accessibility standards, and maintain data security protocols.

## Quality Assurance (QA) Testers:

**Role:** Critical in validating the app's functionality, usability, and reliability.

**Responsibilities:** Execute test plans, report bugs, and verify fixes. Ensure the platform meets all specified requirements and provides a smooth user experience.

# User Stories

## Medicine Tracking:

**User Story:** "As a caregiver, I want to set up and manage a medicine schedule for my loved one, so they never miss a dose."

### Acceptance Criteria:

**Given:** The caregiver has access to the patient's profile,

**When:** They input medication details and schedule,

**And:** The app alerts the patient and/or caregiver when it's time to take medication.

## Engaging in Cognitive Exercises:

**User Story:** "As a patient, I want to engage in brain games that are fun so I can help slow my cognitive decline."

### Acceptance Criteria:

**Given:** The patient selects a cognitive exercise,

**When:** They complete sessions regularly,

**Then:** Progress is tracked, and the difficulty is adjusted based on performance.

### **Caregiver Monitoring:**

User Story: "As a caregiver, I want to monitor my loved one's activity on the app so they're engaged and safe."

#### **Acceptance Criteria:**

Given: The caregiver has login access to the web portal,

When: They check the patient's medication adherence and exercise completion,

Then: Receive notifications of any missed medications or inactivity.

### **For Tracking Location:**

User Story: "As a caregiver, I want to receive real-time notifications when the patient steps out of a designated safe zone, so I can promptly assist and ensure their safety."

#### **Acceptance Criteria:**

Given: The caregiver has set up safe zones in the Zuno app,

When: The patient steps out of a designated safe zone,

Then: The caregiver receives an immediate notification on their mobile device,

And: The notification includes the patient's current location.

### **Emergency Alerts:**

User Story: "As a patient, I want to easily notify my caregiver if I'm in distress or need immediate help so I am safe."

#### **Acceptance Criteria:**

Given: The patient feels unwell or in danger,

When: They tap the SOS button on the app,

Then: The caregiver is instantly alerted with the patient's location and condition.

### **Feedback and Improvement:**

User Story: "As a caregiver, I want to provide feedback on the app's features so it ensure it meets our needs effectively."

#### **Acceptance Criteria:**

Given: The caregiver has suggestions for improvement,

When: They submit feedback through the web portal,

**Then:** The project team reviews and considers the feedback for future updates.

### **Storing Confidential Data:**

**User Story:** "As a dementia patient, I want the Zuno app to have a secure feature for storing confidential documents, so I can access important information when needed."

### **Acceptance Criteria:**

**Given:** The patient has access to the Zuno app on their device,

**When:** They navigate to the confidential document storage feature,

**Then:** The app provides a secure and encrypted storage space,

**And:** The patient can upload and store documents such as medical records, insurance information, and legal documents,

**And:** Access to these documents requires authentication, such as a PIN or biometric verification,

**And:** The patient can easily organize and retrieve stored documents within the app.