Scenario 2: Elderly Care Coordination Platform

1. Chosen Scenario (from Appendix 1)

The scenario I have chosen is the Elderly Care Coordination Platform. The problem I am addressing is that Mark, as the primary caregiver for his elderly mother with dementia, struggles with coordinating medication schedules, doctor's appointments, and care routines with multiple family members, leading to confusion and missed tasks. Mark wishes for an app that streamlines caregiving duties, tracks schedules, and keeps the family informed in real time to reduce stress and prevent mistakes.

This scenario is meaningful to me because with an aging population, many families face similar challenges in providing care for loved ones with chronic conditions. I have seen the emotional toll it takes on caregivers in my own community, and I believe technology can make a real difference by fostering better organization and support. Target audiences include primary family caregivers, extended family members involved in care, and professional caregivers, generally those supporting elderly individuals with conditions like dementia or other chronic illnesses.

2. Related Apps

App 1: Caring Village

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| Platforms | Android: https://play.google.com/store/apps/details?id=com.caringvillage.app&hl=en\_US  iOS:  https://apps.apple.com/us/app/caring-village/id1093814557 |
| Strengths | - Allows creation of a "village" to coordinate care with family, friends, and professionals  - Features a centralized calendar, document storage, medication lists, and wellness journal  - Free and easy to use, providing peace of mind for caregivers |
| Weaknesses | - Medication tracking lacks advanced features like timed notifications and logging by multiple users  - Care plans do not always update in real time  - Limited user reviews and some reported bugs in updates |
| How your app will be different or offer more value | - Will include advanced real-time notifications and task assignments for immediate updates  - Prioritize dementia-specific tools like routine reminders and progress tracking  - Emphasize seamless integration for long-distance caregivers |

App 2: Caily

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| Platforms | Android:  <https://www.caily.com/download>)  iOS:  https://apps.apple.com/us/app/caily-family-elder-care-app/id6746203787 |
| Strengths | - All-in-one platform for sharing health info, storing documents, and planning care  - Secure, easy access to medical details in emergencies  - Supports both family and professional care teams for streamlined communication |
| Weaknesses | - As a newer app, it may have limited features or integrations compared to established ones  - Potential for usability issues in complex care scenarios due to fewer reviews  - Focus on broad caregiving might not deeply address specific conditions like dementia |
| How your app will be different or offer more value | - Will add customizable real-time alerts and family chat features for better coordination  - Design a more intuitive UI with visual dashboards for elderly care specifics  - Include free advanced tools without subscriptions for wider accessibility |

3. Initial Feature List

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| User Features: | - Users can create caregiver profiles and invite family members or professionals to join the care network. |
| Core Features: | - Medication and appointment tracking with reminders  - Daily routine logging and real-time updates - Secure document sharing for medical records |
| UI Elements: | - Dashboard for overview of tasks and updates  - Calendar view for scheduling  - Notification center and chat feed for communication |

4. Learning Goals & Resources

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| Concept/Tool | Required Learning | Link to Resource |
| Care coordination features  - User invites family via network then shares updates in real time | User authentication Sharing and permissions | Firebase Authentication Sharing Data in Android |
| Store care data (medications, appointments) | Database integration | Use Room for Data Persistence Pathways Store and access data using keys with DataStore |
| Enter and edit details Display schedules Save and share data Access across devices | State and recomposition State hoisting | Intro to State in Compose |
| Dashboard layout | Grid and list layouts | Lists and Grids |
| Notification system | Push notifications | Firebase Cloud Messaging |
| Buttons – on Click for tasks | Buttons | Create a Button |