**Project Design Phase-I**

**Solution Architecture**

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| Team ID | NM2023TMID11242 |
| Project Name | Cognitive Care: Early Intervention for Alzheimer's Disease |

**Solution Architecture:**

**Data and Information Management:**

Implement a centralized database to store and manage patient information, including cognitive assessments, medical history, and treatment plans.

**Awareness and Education Platform:**

Develop a user-friendly online platform or mobile application to provide educational resources, symptom checklists, and information about local support services.

**Screening and Diagnostic Tools:**

Integrate cognitive screening tools into electronic health records (EHR) systems to enable healthcare providers to identify cognitive impairments during routine check-ups.

**Healthcare Access and Coordination:**

Establish partnerships with healthcare organizations to increase the availability of specialized Alzheimer's clinics and reduce wait times for evaluations.

Implement telehealth services to facilitate remote consultations, follow-ups, and caregiver support.

**Caregiver Support and Resources:**

Develop a comprehensive caregiver support program, including online resources, educational materials, and access to support groups.

**Research and Collaboration:**

Encourage collaboration between research institutions, healthcare providers, and pharmaceutical companies to accelerate the development of new treatment options and interventions.

**Monitoring and Feedback:**

Implement monitoring mechanisms to track the effectiveness of early interventions, patient outcomes, and caregiver satisfaction.

Collect feedback from patients, caregivers, and healthcare providers to continuously improve the system and address any shortcomings.

**Solution Architecture Diagram:**



