

CSI1007 - Software Engineering Principles Laboratory

Assessment – 1

Reg.No.:22MIC0009

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Title of the Project: MEMOIR-A collaborative memory keeper

Description of the Project:

The Memoir App is an innovative platform designed to capture, share, and relive daily memories in a structured and collaborative manner. This app allows users to log personal moments, including photos, tasks, text notes, and music, directly into a calendar-based interface. By integrating with the Google Calendar API, the app provides a seamless way to organize and visualize memories on specific dates or years.

The platform also supports shared experiences, enabling users to collaborate with friends and family through shared login access or unique access codes. This makes it ideal for long-distance connections, corporate collaboration, or shared family milestones.

Key features include:

- Daily memory logging with multimedia support.
- Calendar view for organized access to past memories.
- Shared access for collaborative edits and memory additions.
- Authentication using MongoDB for secure and personalized user access.
- Integration with Google Calendar for efficient memory management.

The Memoir App aims to blend personal storytelling with modern technology, creating a dynamic space where memories are cherished and revisited in meaningful ways.

Scope of the Project:

1. The Memoir App aims to redefine how individuals and groups capture, organize, and share daily experiences, blending personal storytelling with innovative technology. The project's scope encompasses a wide range of features to make memory preservation and collaboration seamless, intuitive, and impactful.

Aim

To provide a dynamic platform for individuals and groups to log, organize, and share meaningful memories in a collaborative and secure environment, fostering stronger connections and a sense of togetherness.

Objectives

1. **Daily Memory Logging**
Enable users to document daily experiences with multimedia support, including photos, text, tasks, and music, in an easy-to-use calendar interface.
2. **Calendar Integration**
Integrate the Google Calendar API to organize memories by specific dates and years, providing a structured and visually appealing timeline.
3. **Collaboration and Sharing**
 - Allow shared login access for family, friends, or teams, enabling collaborative editing and memory additions.
 - Facilitate sharing through unique access codes, making long-distance connections more interactive.
4. **User Authentication and Security**
Implement MongoDB-based authentication to ensure secure and personalized user access while maintaining data integrity.

By achieving these objectives, the Memoir App aspires to become a go-to platform for preserving and sharing life's moments, fostering stronger relationships, and celebrating milestones in a collaborative digital space.

Impact of the developing Project:

The Memoir App has the potential to create significant impacts across economic, social, technological, and environmental dimensions, contributing to improved personal and professional collaboration, technological innovation, and sustainable digital practices.

Economic Impact

1. **Cost-Efficient Memory Management**
The app provides a centralized platform for storing memories, reducing the need for physical diaries, photo albums, or multiple apps, saving costs for users.
2. **Opportunities for Monetization**

- Subscription-based premium features, such as advanced storage or customization options, can generate sustainable revenue.
 - Potential collaborations with businesses for advertising or corporate memory-keeping solutions.
3. Boost to Tech Development
Encourages the growth of related industries like cloud storage, API development, and multimedia services, contributing to economic growth in the tech sector.

Social Impact

1. Strengthening Relationships
 - Facilitates shared experiences among family and friends, fostering emotional connections and reducing feelings of loneliness or isolation.
 - Enables long-distance collaboration, bridging geographical gaps between loved ones or teammates.
2. Community Engagement
Users can celebrate achievements, milestones, and memories together, promoting inclusivity and collective joy.
3. Mental Health Benefits
Documenting memories and revisiting them can enhance mindfulness and provide a sense of nostalgia and positivity, improving overall well-being.

Technological Impact

1. Innovation in Personal Data Management
 - Integrates cutting-edge technologies like Google Calendar API and MongoDB authentication for seamless and secure experiences.
 - Pioneers a new way of integrating multimedia elements into calendar-based memory storage.
2. Scalable and Versatile Architecture
The app's design can adapt to personal and corporate needs, showcasing versatility in tech innovation.
3. Promotes Cloud Technology
Encourages the use of cloud storage and real-time updates, driving further adoption of cloud-based solutions in personal and professional domains.

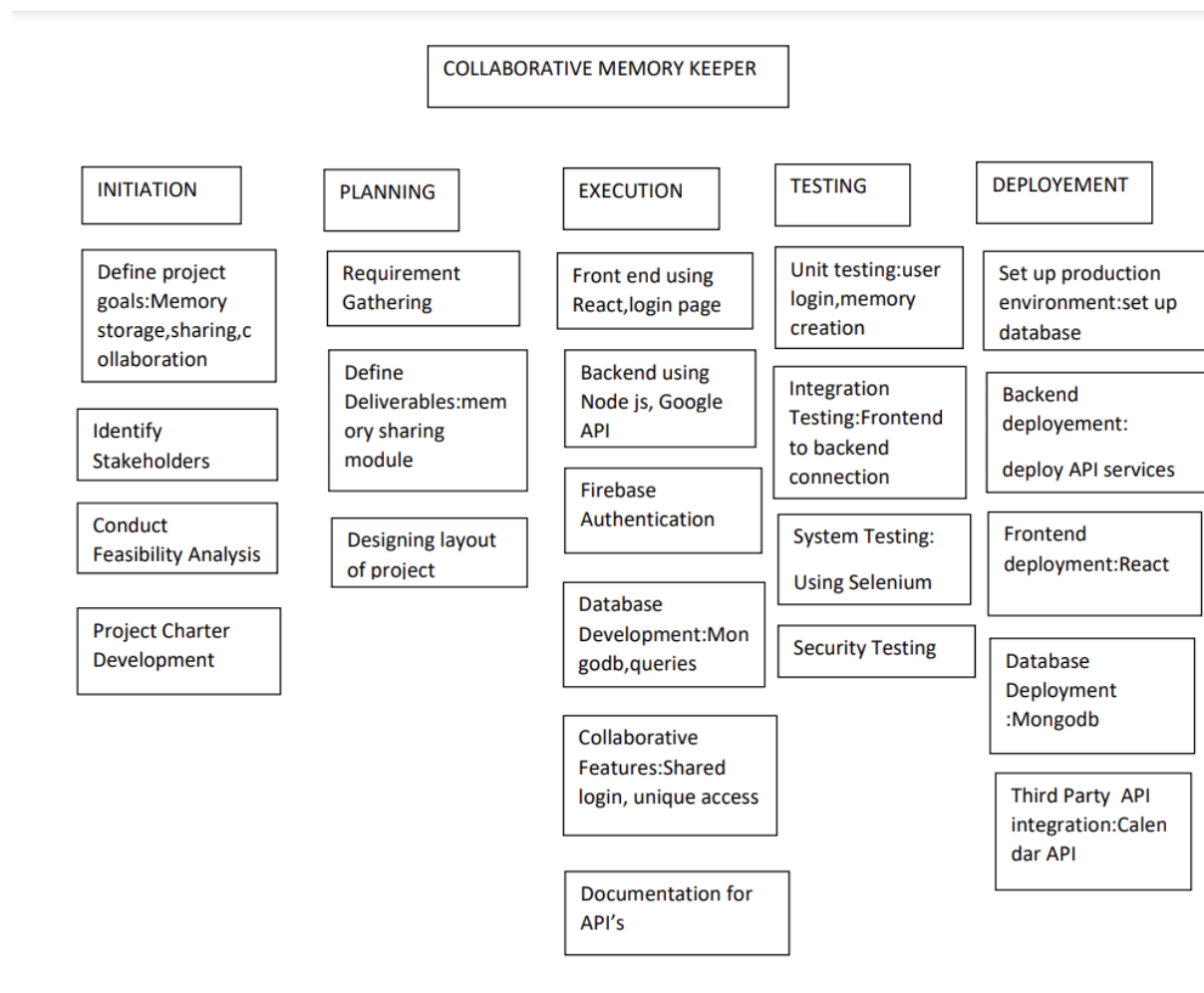
Environmental Impact

1. Reduction in Physical Resource Usage

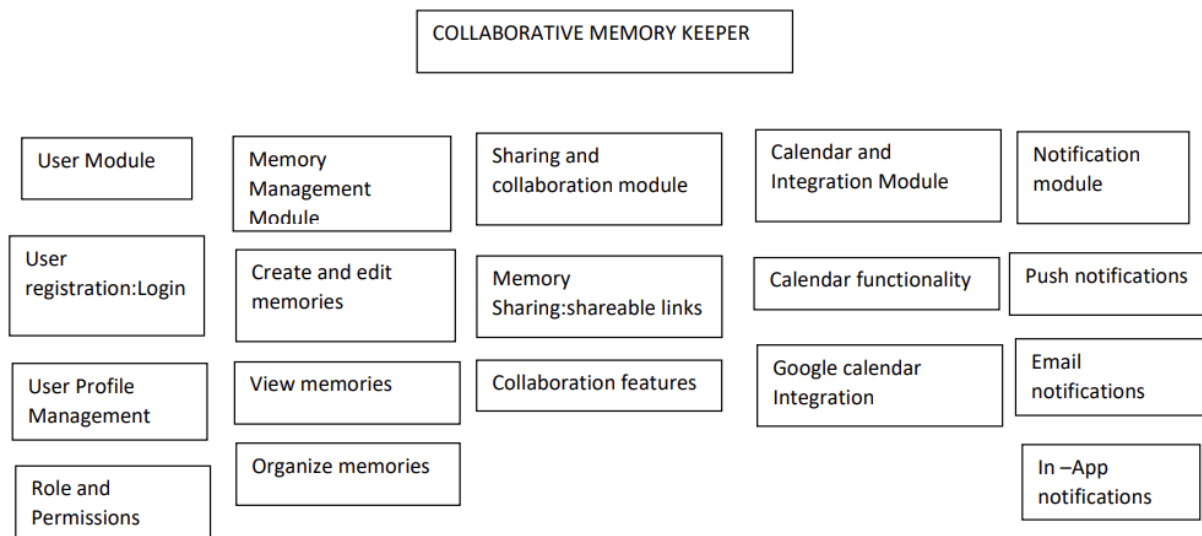
- Reduces reliance on paper diaries, photo albums, and printed materials, contributing to environmental conservation.
 - Supports the digital-first approach, minimizing the carbon footprint associated with manufacturing and disposing of physical storage mediums.
2. Energy-Efficient Systems
- By optimizing cloud storage and using sustainable data management practices, the app can minimize its energy consumption and environmental impact.

WBS (Work Breakdown Structure)

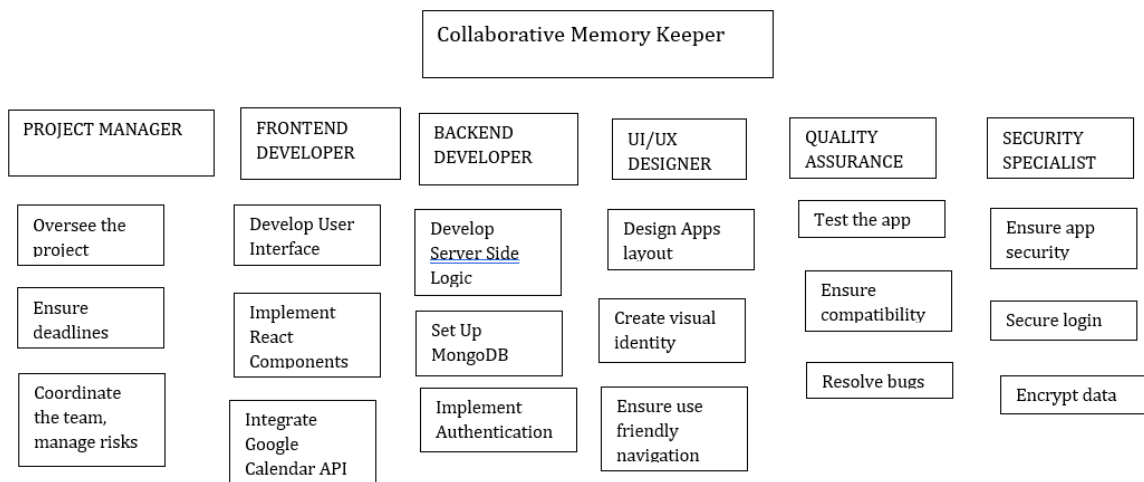
Process-Based Work Breakdown Structure:



Product-Based Work Breakdown Structure:



Role-Based Work Breakdown Structure:



Geography-Based Work Breakdown Structure:

Region	Focus	Key Tasks
North America (NA)	Development, testing, and initial launch	Implement React components and optimize UI for North American users. Set up MongoDB and APIs for memory data. Test across popular North American devices and browsers.
Europe (EU)	Localization and data privacy	Support multi-language options and test responsiveness. Ensure GDPR compliance and data protection. Gather usability feedback from European users.
Asia (AS)	Localization and mobile optimization	Translate UI into Asian languages and adapt to cultural preferences. Optimize for prevalent mobile devices in Asia.
Australia (AU)	Launch and support	Develop local strategies and highlight app features for Australian users. Collect feedback on usability.
Africa (AF)	Accessibility and performance optimization	Adapt the app for low-bandwidth areas and limited device capabilities. Ensure usability for diverse regions.
South America (SA)	Localization and cultural adaptation	Translate into Spanish and Portuguese. Tailor campaigns for South American audiences.
Global (GL)	Universal features and functionality	Enable global login methods. Ensure seamless cross-region memory sharing. Monitor usage globally to enhance performance.