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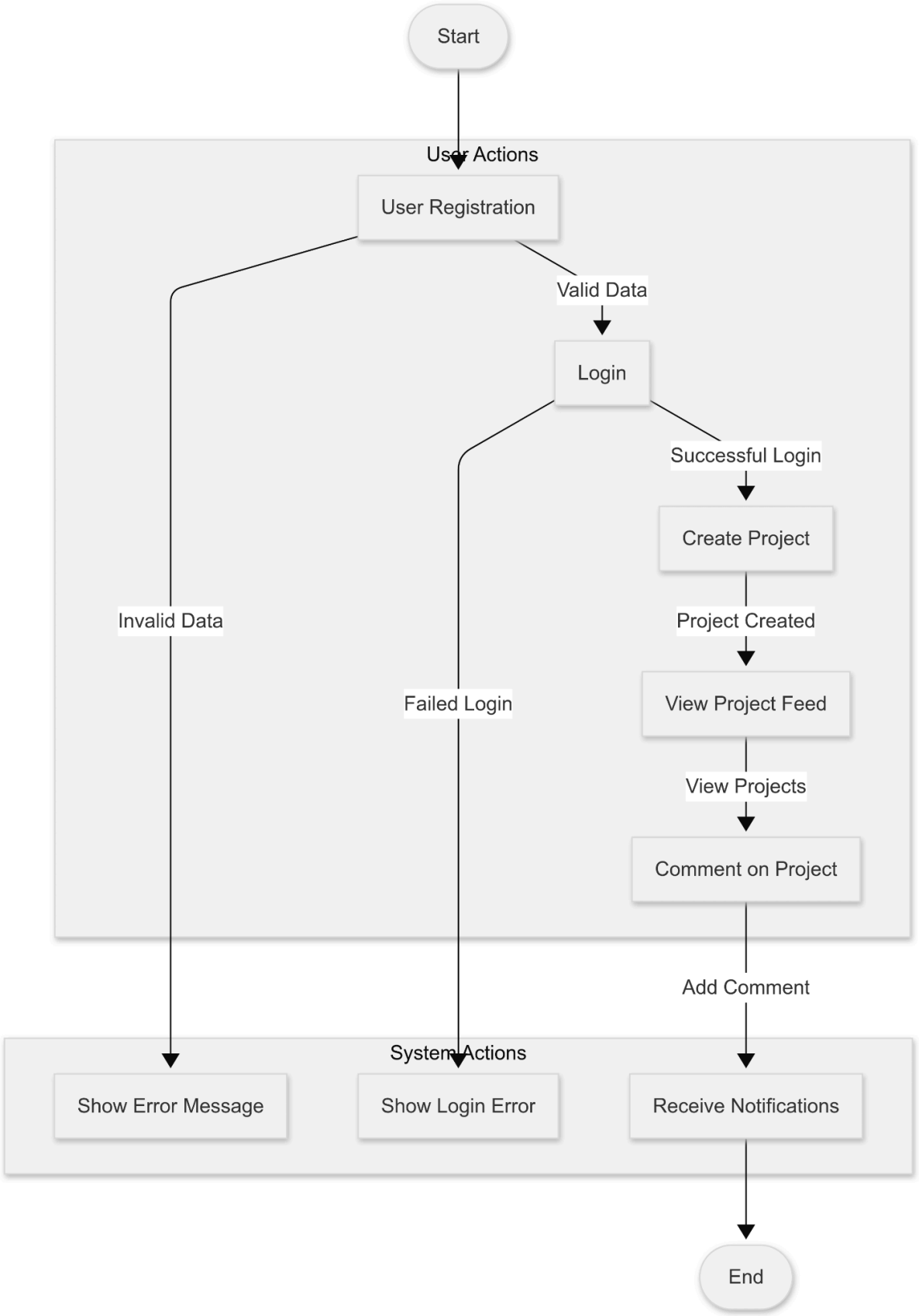
Nombre del curso:	**Nombre del profesor:**
Modulo: 1	**Actividad: evidencia 1**
Fecha:	

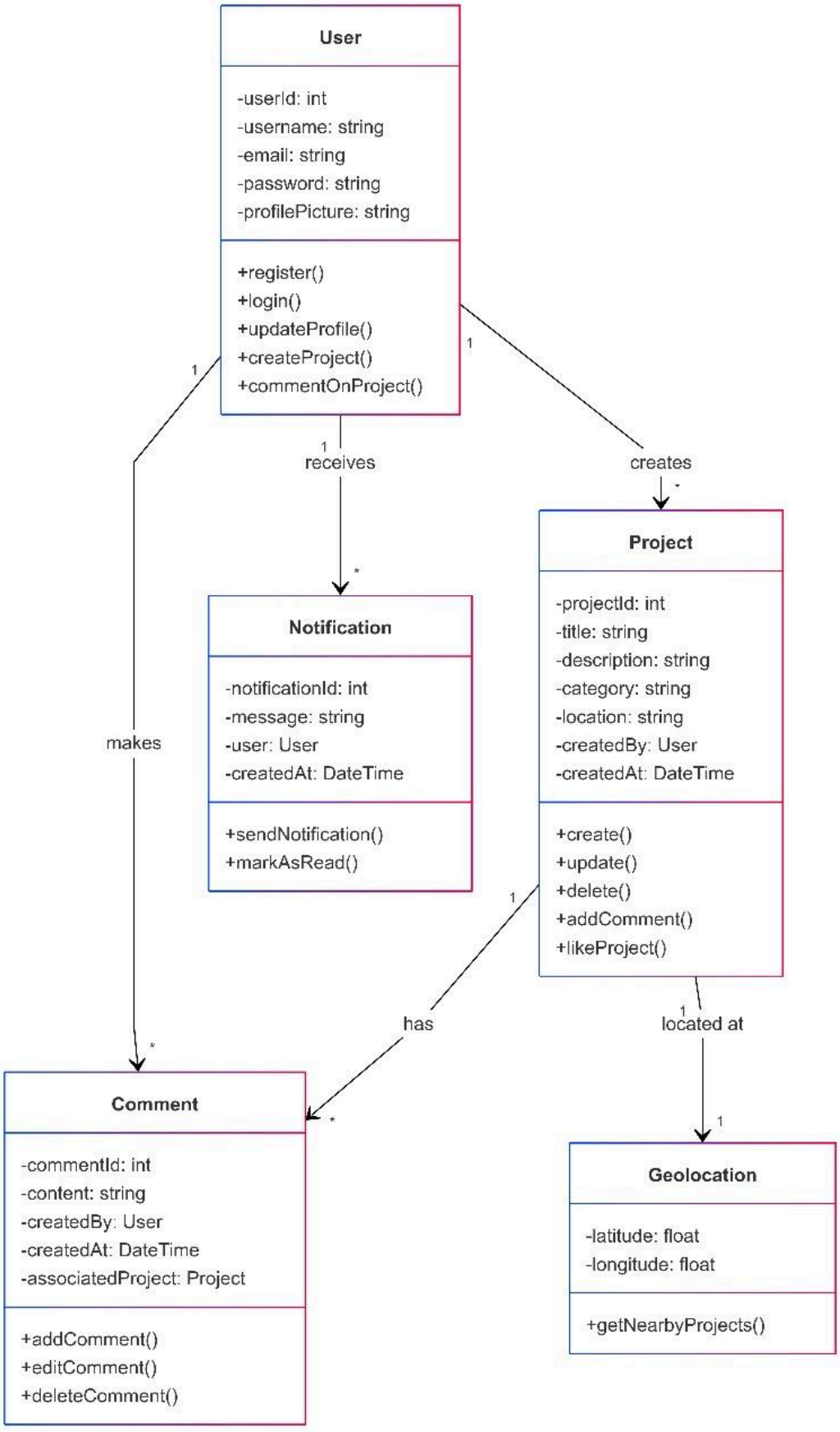
github repo:
https://github.com/Tanosjuanpi05/Dise-oWebClass

TOPIC: Red Social para Proyectos Colaborativos Locales

BPMN diagram



Class Diagram



Justification for Agile Methodology

Agile methodologies are particularly well-suited for projects like the "Red Social para Proyectos Colaborativos Locales", as described in the previous context. Here's why:

Flexibility and Adaptability:

- Agile allows for iterative development, which is ideal for a project where requirements may evolve based on user feedback. For example, features like geolocation-based project recommendations or user profile customization can be refined over time as the team gathers insights from stakeholders and users.

User-Centric Approach:

- Agile emphasizes delivering value to the end user through continuous feedback. In the case of the social network, the Product Owner can prioritize features like user registration, project creation, and feed visualization based on user needs, ensuring the platform aligns with its goals.

Incremental Delivery:

- Agile focuses on delivering functional increments at the end of each sprint. This is critical for the social network project, as it allows the team to release a prototype with basic features (e.g., user registration, project creation) early on, enabling stakeholders to test and provide feedback.

Collaboration and Communication:

- Agile promotes close collaboration between team members (developers, Product Owner, Scrum Master) and stakeholders. This ensures that everyone is aligned and that potential blockers are addressed quickly, which is essential for a project with multiple interconnected components like frontend, backend, and database integration.

Risk Mitigation:

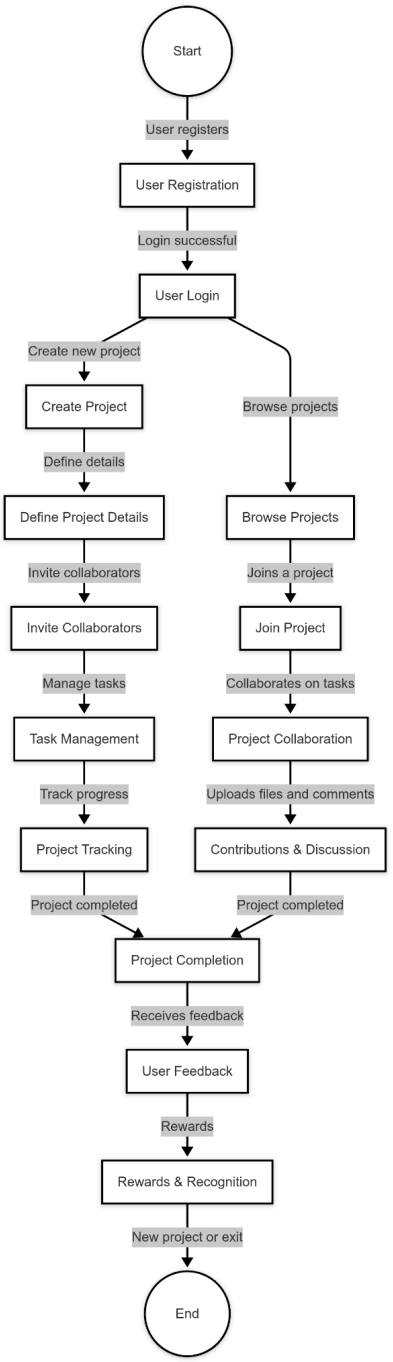
- By working in short sprints and continuously testing the product, Agile reduces the risk of major failures. For example, testing the user registration flow or project creation functionality early ensures that critical issues are identified and resolved before moving on to more complex features.

Activity Diagram

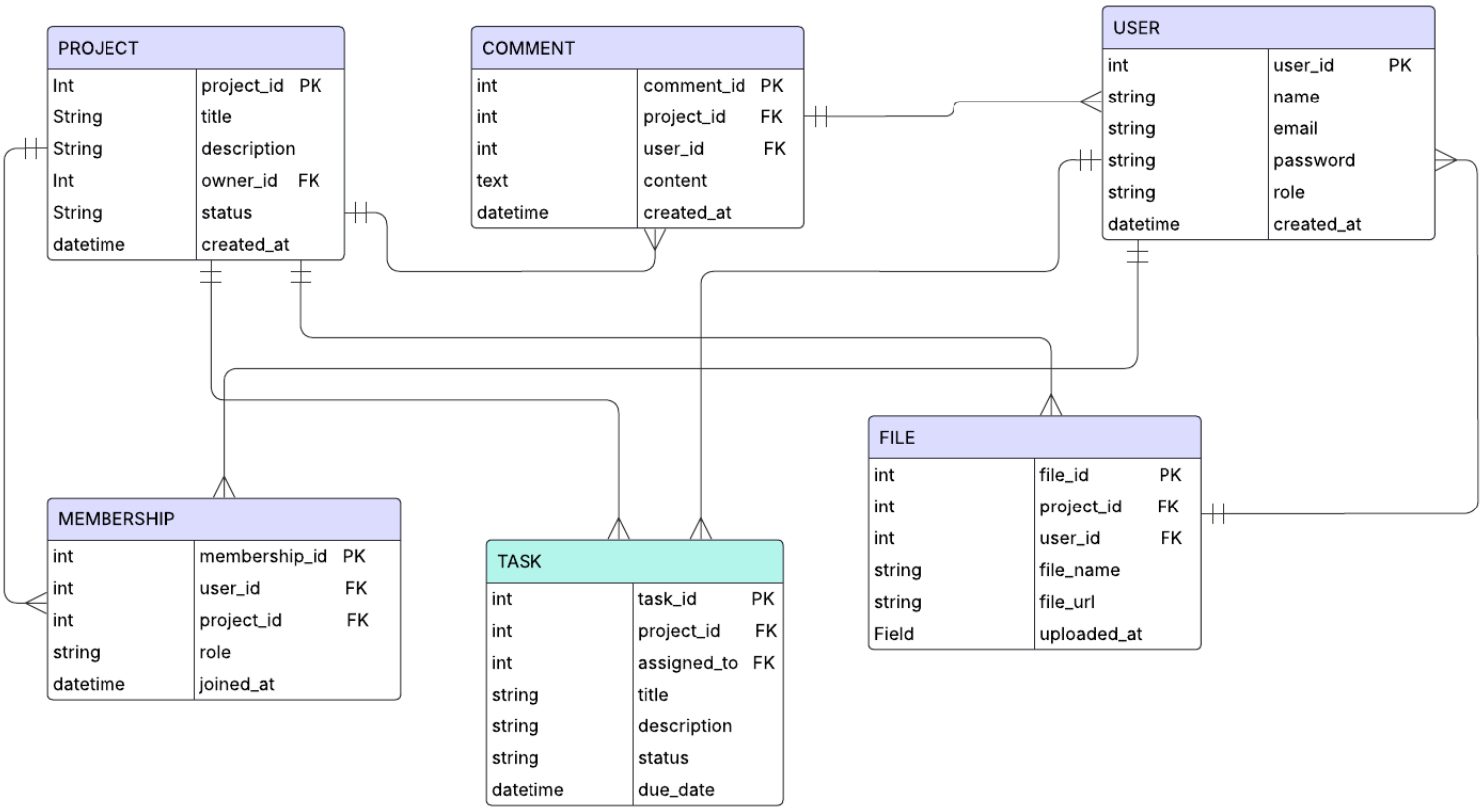
Explanation of Activity diagram

The activity diagram shows how users interact with the Collaborative Project Social Network. It starts with users signing up and logging in, giving them the option to either explore existing projects or create a new one. If they choose to explore, they can join a project and start working on tasks. If they decide to create a project, they need to define details, invite collaborators, and manage tasks.

During collaboration, users can upload files, participate in discussions, and get assigned different tasks. As the project progresses, updates are tracked until completion. Once finished, users can leave feedback and earn rewards for their contributions. Finally, they can either start a new project or log out of the platform.



ER DIAGRAM

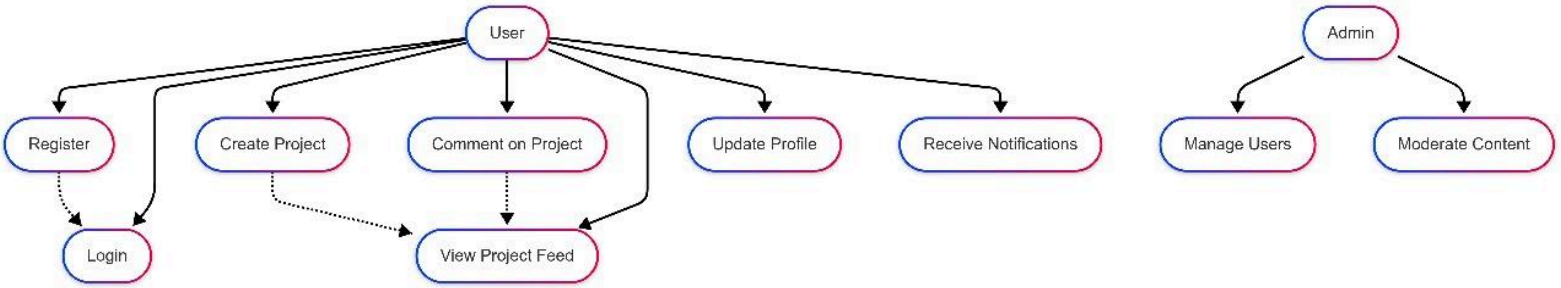


Explanation:

The ER diagram lays out the database structure for the platform. It includes key entities like USER, which stores user information, PROJECT, which represents collaborative projects, and MEMBERSHIP, which links users to projects. There's also TASK, which handles task assignments within projects, ensuring every task is linked to a specific user.

Other important entities include COMMENT, which records discussions within projects, and FILE, which manages uploaded files. The relationships between these entities make sure users can collaborate efficiently assigning tasks, sharing files, and communicating. This database model is the foundation for organizing and managing all the data within the platform.

Use Case Diagram



Reflexions

Jesus Antonio Pelagio Torres

- Working on this activity helped me understand how a Collaborative Project Social Network should function, both from a user perspective and a technical one. The activity diagram made it clear how users interact with the platform, from registration to project completion, showing every step in between. Meanwhile, the ER diagram gave me a solid foundation for structuring the database
- Through this process, I realized how important it is to have a well-defined workflow and a strong database structure to support it. Every relationship between entities plays a key role in making sure the platform runs smoothly and efficiently. This activity was a great way to connect theory with practical application, reinforcing my understanding of system design and database modeling.

Andres Tamez

- The process of designing a class diagram and justifying a work methodology highlights the importance of planning and structure in software development. A well-thought-out class diagram provides a solid foundation for implementation, ensuring that all system components are clearly defined and connected. On the other hand, choosing the right methodology, such as Agile, ensures that development is efficient and adaptable, allowing the team to respond quickly to changes and continuously improve the product.
- Together, these steps not only facilitate the creation of a functional and user-centered application but also promote a culture of collaboration and continuous improvement within the development team. This is essential for the success of any software project, especially in a dynamic and user-oriented environment like a social network for collaborative projects.

Josue Daniel Juarez Odriozola

- The process of developing use case diagrams is crucial for understanding the scope and requirements of a software project. By mapping out the interactions between users and the system, we can ensure that all necessary features are accounted for and that the system will meet user needs effectively.
- In the context of a social network for collaborative projects, these diagrams highlight the core activities such as user registration, project creation, and content moderation. They also emphasize the importance of user roles, distinguishing between regular users and administrators, each with their own set of responsibilities and permissions.

Juan Pablo Tanos Batarse

A lo largo de este proyecto, comprender la interacción entre cada uno de los componentes desde la definición de diagramas hasta la elección de la metodología— ha sido un aprendizaje muy valioso para mí. Ver cómo un buen diseño de base de datos se articula con flujos de actividad claros y casos de uso bien definidos me ha hecho valorar la importancia de la coherencia en cada etapa de desarrollo. Esta experiencia me anima a mantener siempre una visión integral, donde el trabajo colaborativo y la organización meticulosa sean la clave para construir soluciones sólidas y centradas en las necesidades reales de los usuarios.