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**Deliverable 2: Project Progress Report**

**Introduction:** The purpose of this report is to provide an update on the progress of the College Library Management System project. It plays a crucial role in tracking the advancement of the project and ensuring that the team stays on course. By assessing our current status and outlining the plan for the next phase, this report helps us maintain focus and transparency in our development efforts.

**1. Work In Progress:**

* Current Status:
  + As of now, I have successfully completed Phase 1 (Project Initiation) and are progressing into Phase 2 (System Design).
  + The project scope and requirements have been defined, and we have identified project users, actors, vendors, and actuators.
  + We have selected C# as the programming language and MySQL as the database management system.
* Functionalities Implemented:
  + User / Membership management: I have designed the database schema for member information, including name, ID, and password.
  + Catalog management: The system allows librarians to add, edit, and delete books with detailed information.
  + Circulation management: Initial tracking of book movement has been set up, providing information on books to be returned and those overdue.
* Screenshots:

Main screen with options to login, connect, go to members, transactions & books

A screenshot of a computer

Description automatically generated

Connection established with database upon login

A screenshot of a computer

Description automatically generated

Members database which will have specific features for admin or regular users.

A screenshot of a computer

Description automatically generated

Transactions menu, you can display all transactions, it will be user depending, only admins will have access to certain features ( still in development )

A screenshot of a computer

Description automatically generated

Inserting values into members table, transactions and books. (only for members shown)

A screenshot of a computer screen

Description automatically generated

Database and its tables

A screenshot of a computer

Description automatically generated

* Database Integration:
  + As database development is part of Phase 2 (System Design), I will showcase database integration in upcoming reports.

**2. Tools Finalized:**

* Technologies and Tools:
  + WPF (Windows Presentation Foundation) (.NET Framework 4.72)
  + C# is the chosen programming language for the back-end.
  + MSSQL is our selected database management system..
  + Source control is managed through GitHub.
* Additional Tools:

On the look out for additional tools that can make the process easier, will update with time.

**3. Plan:**

* Working Plan for Next 4 Weeks:
  + Phase 2: System Design (Week 3-4)
    - Week 3: Design the database schema for books, members, and transactions.
    - Week 4: Create the user interface (UI).
  + Phase 3: Development (Week 5-6)
    - Week 5: Begin back-end development using C#. Implement user management functionalities.
    - Week 6: Continue back-end development, including catalog management and transaction handling. Start front-end development using HTML, CSS, and JavaScript.
* Database Migration and Testing:
  + One week has been allocated for migrating the database to a REST API-based database.
  + An additional week is dedicated to generating test programs to ensure the application's functionality and reliability.

**Team Member Contributions: (No team members, solo)**

* + **Almir Aziri**
  + I worked on defining project scope, requirements, and user roles.
  + I focused on selecting programming languages and tools.
  + I worked on outlining the project plan for the next phase.
  + I contributed to the report's overall structure and formatting.

**Conclusion:** In conclusion, I’ve made good progress in the College Library Management System project, successfully completing Phase 1 and moving forward with Phase 2. I’ve wrapped up everything needed for the next phase, I’ve got a solid plan for the next four weeks. I’m fully committed to meeting project milestones and staying on track with the deadlines to ensure the success of the project.

**Submission:** Copy of report and project via GitHub.

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