Week 1 Progress Report on password Manager

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**Overview**

During the first week, I focused on understanding the requirements of the “Password Manager” project and setting up the project environment. I made significant progress in developing the core functionality and database integration.

Tasks Completed

* Conducted a detailed analysis on “password manager”.
* Creating prototypes, designing user interfaces, coding software, or constructing physical structures.
* Conducting tests, identifying and resolving issues, and ensuring the project meets quality standards.
* Rolling out the project solution, installing equipment,and launching software applications into our systems.
* coordinating with team members, and maintaining effective communication channels.

Challenges Faced

* Intially, I was confused in choosing a project,but later I concluded that password manager would be best to me.
* Gathering best information about project took some time.
* Making my system suitable to the project is the big challenge because it is new to me

Lessons Learned

Overall, the lessons learned from the "Password Manger" project highlighted the importance of data security and it is a real-world application. These insights will guide us in future projects and contribute to our professional growth.

Our understanding of project:

* We can generate a random string password in Python with letters, special characters, and digits using the following two ways.
* Combine the following three constants and use them as a data source for the random.choice() function to select random characters from it.
* string.ascii\_letters: To include letters from a-z and A-Z
* string.digits: To include digits from 1 to 10
* string.punctuation: to get special symbols
* Use the string.printable constant and choice() function. The string.printable contains a combination of digits, ascii\_letters (lowercase and uppercase letters), punctuation, and whitespace