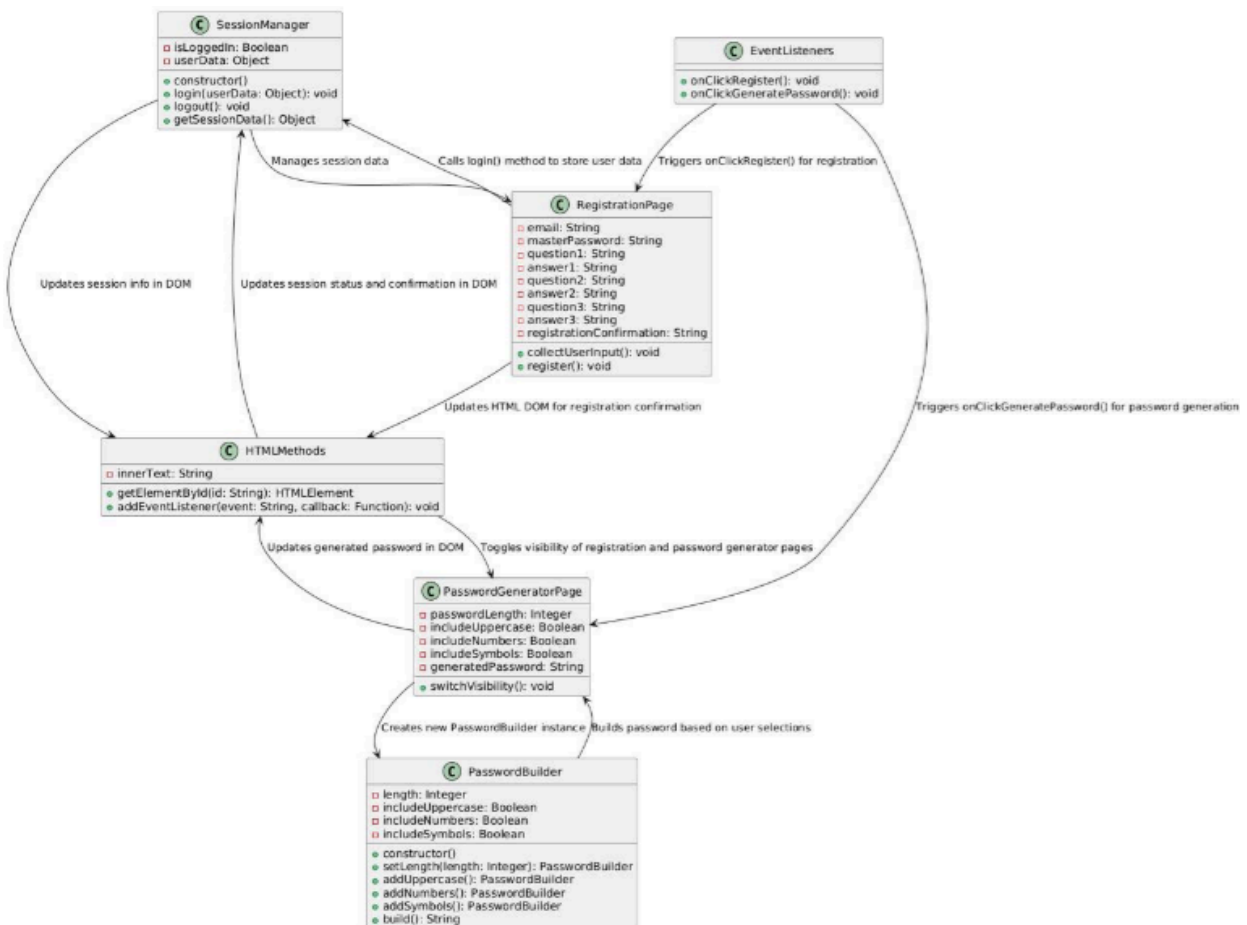


## CIS-476 Term Project Report

UML Diagram:



The provided class diagram for the MyPass Password Manager application represents a comprehensive architecture of its core components and their interactions. At the center is the **SessionManager** class, which manages user sessions by storing session data and providing methods for login, logout, and session retrieval. The **RegistrationPage** class handles user inputs during the registration process,

including email, master password, and predefined security questions, and validates these inputs. It collaborates with `SessionManager` to store session data upon successful registration and uses `HTMLMethods` to dynamically update the DOM with confirmation messages. The `PasswordGeneratorPage` class facilitates the generation of passwords based on user-configured options such as length, inclusion of uppercase letters, numbers, and symbols. It leverages the `PasswordBuilder` class, which implements the logic for password construction based on selected preferences. The `EventListeners` class acts as a bridge between HTML elements and core methods, triggering registration and password generation actions. Lastly, `HTMLMethods` handles DOM manipulation, such as updating text and adding event listeners to enhance the user interface. Together, these components encapsulate functionality in a modular, object-oriented manner, ensuring seamless interaction between user actions, session management, and UI updates. This diagram effectively represents the workflow of the application, emphasizing its robust structure and clear division of responsibilities.

Github repository URL: <https://github.com/TamimNayim/TermProj476>

Video Presentation URL:

[https://www.youtube.com/watch?v=vK2GXx8j3uw&ab\\_channel=AbdullahBuchh](https://www.youtube.com/watch?v=vK2GXx8j3uw&ab_channel=AbdullahBuchh)