Project Module and API Design

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| **Class** | **LCOM4** | **Relatedness** | **Description** |
| LoginUI | N/A | Good | The visual user interface for the login page |
| LoginUIController | LCOM4 = 1 | Good, this class has a dependency on the UserList | This is the controller that authenticates a user |
| Main | LCOM4 = 1 | Good | Starts the application |
| Medical Report | LCOM4 = 1 | Good, this class has a dependency on both the User class and the MedicalUIController | Provides report, test type, and results |
| MedicalUI | N/A | Good | The visual user interface for the medical reports |
| MedicalUICotroller | LCOM4 = 1 | Good, this class has a dependency on the user class | The controller class that initializes the user interface for the reports |
| NavigationUIController | LCOM4= 3 | Bad, this class has dependencies for the User, MedicalUI, and PersonalUI classes | The controller class for navigating throughout the application |
| NavigationManager | LCOM4 = 1 | Good, this class has dependencies with the NavigationUI Controller | Facilitates smooth transition between pages |
| NavUI | N/A | Good | The visual user interface for the navigation classes |
| PersonalUI | N/A | Good | The visual user interface for the user’s home screen |
| PersonalUIController | LCOM4 = 1 | Good, this class has a dependency on the User class | Controller for the visual interface of the user’s personal information |
| User | LCOM4 = 3 | Bad, class is coupled with Medical Report, Medical UI, Personal UI, and PersonalUI controller | This class has many methods that both get and set user data |
| UserList | LCOM4 = 1 | Good | This class contains a list of all of the users in the program |