Bursary Database API Project: Standards Document

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1. PascalCase for Classes and Methods

Consistency in naming conventions enhances code readability and maintainability, promoting a uniform coding style throughout the project.

2. Use Separate Folders for Models, Controllers (MVC file Structure)

Organising files into separate folders based on responsibilities improves project structure and navigation, facilitating easier management of code modules.

3. One Responsibility per function

Using the Single Responsibility Principle (SRP) improves code modularity, making functions easier to understand, test, and maintain by focusing on a single task or responsibility.

4. Every method name should prepend what it is

E.g. GET method is GetThisThing()

Adding a prefix to method names clarifies their purpose and usage, enhancing code readability and reducing ambiguity for developers working on the project.

5. Use Tabs not spaces

Consistent indentation using tabs ensures uniformity in code formatting, aiding readability and reducing potential formatting inconsistencies across different IDEs and editors.

6. Two lines between each block of code

Adding whitespace between blocks of code enhances readability, making it easier for developers to distinguish between different sections of code and understand relationships.

7. Use error-handling

Implementing error-handling makes the application robust, ensuring better handling of exceptions and improving user experience by providing informative error messages.

8. Use Double Quotes for Strings

Consistent use of double quotes for strings maintains code consistency and readability.

9. Use namespaces

Organising code into namespaces helps prevent naming conflicts. It improves code maintainability by providing logical groupings of related functionalities. It also facilitates code reuse across different parts of the project or other projects.

10. Use full names, verbs, nouns, and not abbreviations

Descriptive and explicit naming conventions improve code readability and understanding, making it easier for developers to understand the purpose and functionality of variables, methods, and classes without relying on context or documentation.