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| **Subject Title** | Software Development | | | **Subject Code** | IT2000.10 |
| **Assignment Title** | **Assessment** **2** | | | | |
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| **Due Date** | 15/09/2024 | | | **Word Count (if applicable)** |  |
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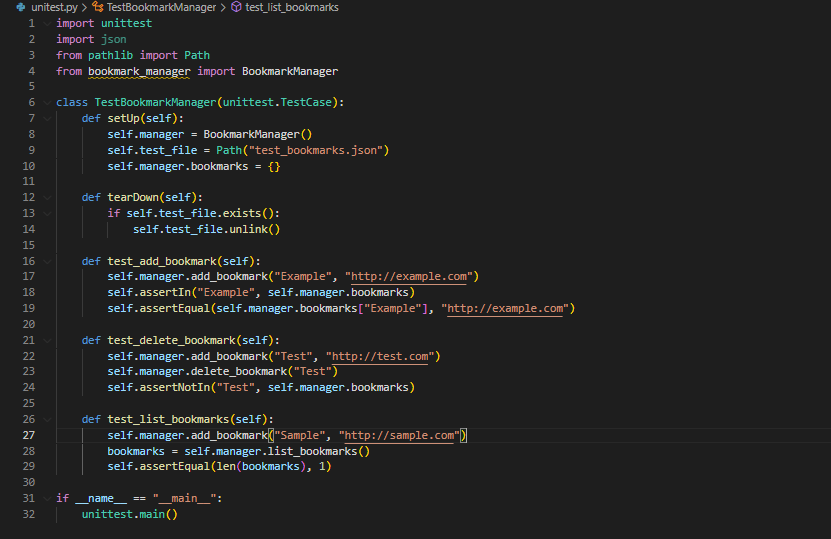
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**Bookmarks Terminal User Interface (TUI)**

## 3. Demonstrate Use of Testing Development Throughout

To guarantee that the application is dependable and capabilities true to form, unit testing was integrated. We utilized Python's unittest system to test the center functionalities of the BookmarkManager class.



## 4. Demonstrate Use of Version Control

For this venture, we involved Git as the variant control framework. The vault is facilitated on GitHub. All through the venture, we guaranteed to gain significant resolves to follow the headway and updates.

1-Set up project structure and added introductory code.

2-Add bookmark include: Clients can now add bookmarks with a title and URL.

3-Rundown bookmarks include: Show every single saved bookmark.

4-Erase bookmark include: Clients can now eliminate bookmarks by title.

5-Further develop mistake dealing with: Handle situations where no bookmarks exist or title isn't found.

6-Add unit tests: Execute fundamental tests for adding and erasing bookmarks.

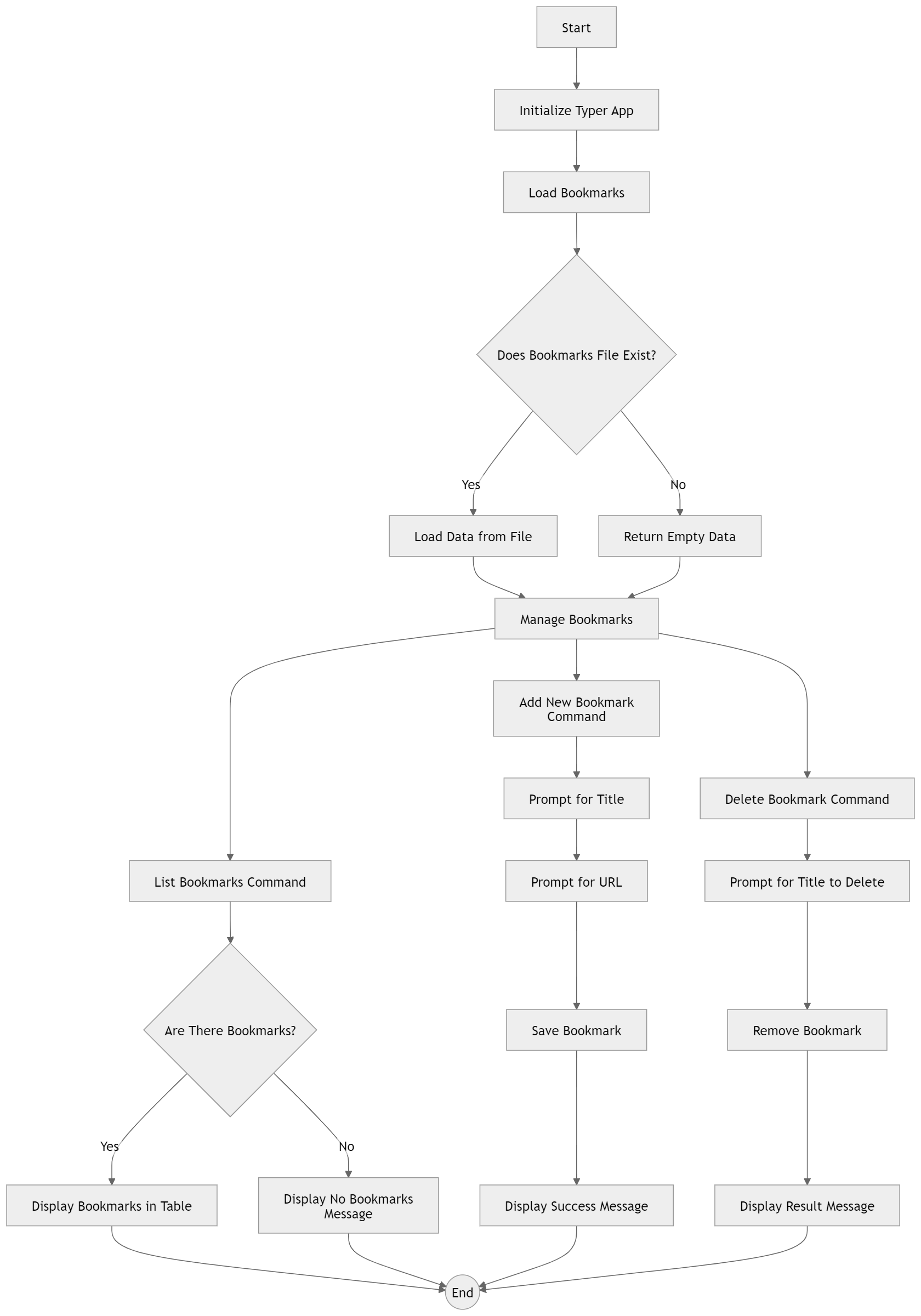
7-Execute TUI styling: Utilize rich library to design the terminal result.

8-Code refactoring: Further developed structure for coherence and execution.

9-Update README: Add use guidelines for the Bookmarks TUI.

10-Last bug fixes: Minor changes and upgrades.

## 4. Class Diagram

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## 6. Documentation

### 1- Design Overview:

The application uses a TUI with an object-oriented design to manage bookmarks. The primary class BookmarkManager handles all operations related to managing bookmarks, such as adding, deleting, and listing. The Typer library is used to build the terminal interface.

### Limitations:

* **Validation**: The current implementation does not validate whether a URL is valid.
* **Storage Scalability**: While JSON is used for persistence, this may not be scalable for a large number of bookmarks. A database could improve this in future versions.

### Future Improvements:

* **Enhanced Features**: Add features like searching for bookmarks and categorizing them into folders.
* **URL Validation**: Introduce validation to ensure that URLs entered by the user are valid.

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