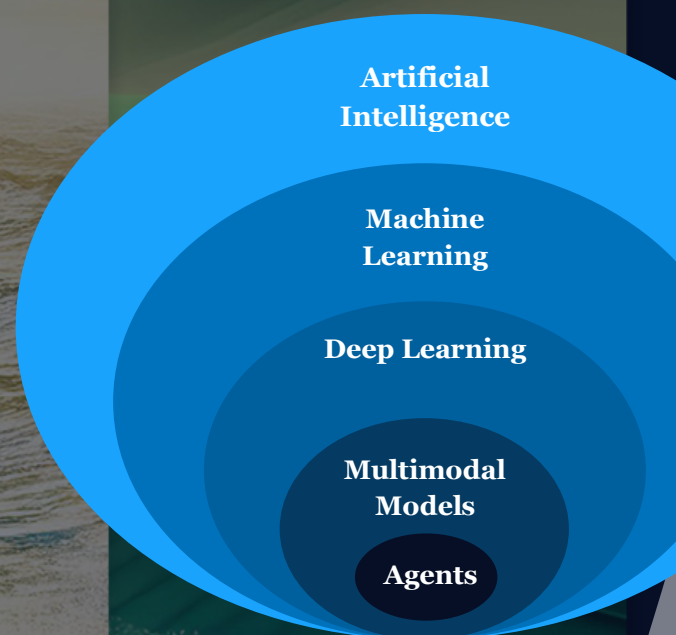


US_001_Enhanced Grid Navigation

Created with NTT Coding AI Tool. Please evaluate critically.

August 1, 2025



0.1 User Story Name: Enhanced Grid Navigation**0.2 Title: Implement Keyboard Shortcuts for Grid Navigation****0.3 User Story Description:**

- As a **data analyst**,
- I want **to navigate the grid using keyboard shortcuts (e.g., arrow keys, Page Up/Down, Home/End)**,
- So that **I can efficiently move through the data without relying solely on the mouse, improving my workflow and productivity.**

0.4 Acceptance Criteria:**1. Functionality:**

- The application must allow users to navigate through the grid using the arrow keys to move up, down, left, and right.
- The Page Up and Page Down keys should scroll the grid view by one page (i.e., the number of visible rows).
- The Home and End keys should move the selection to the first and last cell of the current row, respectively.

2. Usability:

- When a cell is selected, the focus should visually indicate the current selection (e.g., highlight the cell).
- The keyboard shortcuts should not interfere with existing functionalities (e.g., editing a cell should still be possible using the Enter key).

3. Performance:

- The grid should respond to keyboard navigation within 100 milliseconds to ensure a smooth user experience.
- The application should not freeze or lag during navigation, even with a large dataset (e.g., 10,000 rows).

0.5 Story Point Value: 5**0.6 Additional Points:**

- **Dependencies or Related Features:**
 - This feature may depend on the existing grid control's event handling for keyboard input.

- It may also require coordination with the editing functionality to ensure that keyboard shortcuts do not disrupt the editing process.

- **Potential Challenges or Risks:**

- There may be conflicts with existing keyboard shortcuts that are already implemented in the application.
- Ensuring that the keyboard navigation works seamlessly with the existing mouse navigation could require additional testing.

- **User Feedback Methods:**

- Conduct user testing sessions to gather feedback on the new keyboard navigation feature.
- Implement a feedback form within the application to allow users to report any issues or suggest improvements after the feature is deployed.

This user story aims to enhance the user experience by providing efficient navigation options, ultimately leading to increased productivity for users working with large datasets in the grid control.