Daniel Saneel

CS151

Dr. Suneuy Kim

Assignment 2 - MyFirstCalendar

**Use Cases**

**Use Case I: Create One Time event**

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| --- | --- | --- |
| **Step** | **User’s Action** | **System’s Response** |
| **1** | The user Enters [C] to create an event |  |
| **2** |  | System prompts user to enter the name of the event |
| **3** | The user enters the event name |  |
| **4** |  | Prompts to enter the date of the event in YYYY-MM-dd: |
| **5** | The user enters the event date |  |
| **6** |  | Prompts to enter the starting time in: |
| **7** | The user enters the event start time |  |
| **8** |  | Prompts to enter the ending time: |
| **9** | The user enters the end time |  |
| **10** |  | System validates the times don’t clash with any existing event. |
| **11** |  | Prompts Your event has been successfully created! |
| **12** |  | System goes back to main menu |

**Use Case II: View Event by Month or Day**

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| **Step** | **User’s Action** | **System’s Response** |
| **1** | The user Enters [V] to view an event |  |
| **2** |  | System prompts use to  Select a view by option:  [D]ay View [M]onth view |
| **3** | The user enters [D] or [M] for specific view |  |
| **4** |  | System Displays the event month/day view with specific delimiters |
| **5** |  | System then prompts  [P]revious or [N]ext or [G]o back to the main menu? options |
| **6** | The user enters [P]  OR  The user enters [N]  OR  The user enters [G] |  |
| **7** |  | [System displays the previous month/day view]  OR  [System displays event on next day if it exists]  OR  [System displays the main menu of the system] |

**Use Case III: Delete a Selected event**

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| **Step** | **User’s Action** | **System’s Response** |
| **1** | The user enters [D] to delete an event |  |
| **2** |  | System prompts user to select  [S]elected [A]ll [DR] |
| **3** | The user enters [S] |  |
| **4** |  | System Prompts enter the date of the event to DELETE in yyyy-MM-dd format: |
| **5** | The user enters the date of the event to delete in format |  |
| **6** |  | System displays all the events scheduled on that day |
| **7** |  | System asks user to Enter the name of the event to delete: |
| **8** | The user enters the name of the event from the displayed list |  |
|  |  | System removes the event from the Calendar’s list of scheduled events |
| **9** |  | System prompts: event has been successfully deleted |

**Use Case IV: Go to an event by date**

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| **Step** | **User’s Action** | **System’s Response** |
| **1** | The user enters [G] to go to an event at a particular date |  |
| **2** |  | System prompts user to  enter the date of the event in YYYY-MM-dd: |
| **3** | The user enters the desired date |  |
| **4** |  | System displays all the events scheduled on that day, sorted by time |
| **5** |  | System displays main menu |

**Use Case V: Event List**

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| --- | --- | --- |
| **Step** | **User’s Action** | **System’s Response** |
| **1** | The user presses [E] to get a list of all scheduled events |  |
| **2** |  | System displays all scheduled events in order:  One Time Events:  Recurring Events: |
| **3** |  | System displays the main menu |

**A set of CRC cards**

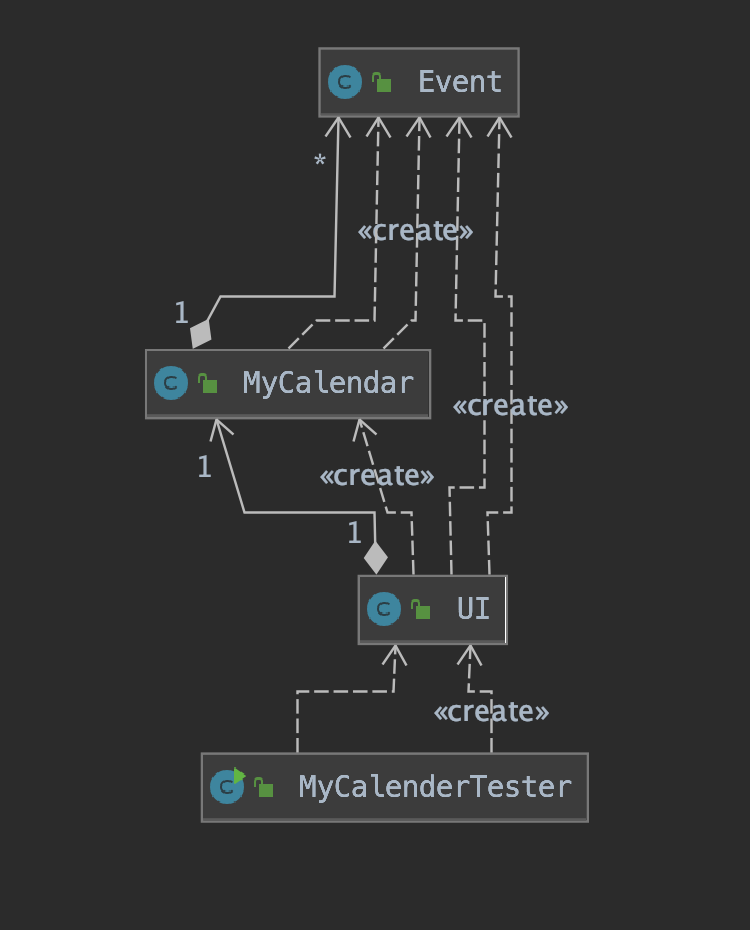
|  |  |
| --- | --- |
| **MyCalendar Class** | |
| Is a Calendar,  Handles all the back-end functioning of methods/operations.  Manages the list of events schedules,  Some Methods:  Creates Events, View Event, Deletes Event, Go to Event, Display Event. | **Event**  **MyCalendarTester**  **UI** |

|  |  |
| --- | --- |
| **Event Class** | |
| Creates Event Object  Event stores event information:  Name, start date, end date, start time, end time, recurring T/F, Recurring days. | **MyCalendar**  **UI** |

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| **MyCalendarTester Class** | |
| Program Launcher Class  Has the main method  Creates a UI instance and calls the main menu. | **UI** |

|  |  |
| --- | --- |
| **UI** | |
| Manages User interaction and validates user input  Calls appropriate methods in the MyCalendar class for specific functions | **MyCalendar**  **Event** |

**UML CLASS DIAGRAM:**



**Sequence Diagram: Create New Event Use Case**

A close up of a screen

Description automatically generatedA screenshot of a cell phone

Description automatically generated

Calls MyCalendar.viewByDate(Evennt.startDate), to check if event added and displays success message

Goes Back to Main Menu Options

True if no other event scheduled for the dat&time

UI creates a new Event object with given info,

Event Class returns the reference

User Enters C to create an Event, then enters name, date, start time, and end time.





UI then calls MyCalendar.timeValidated<Event> to check if the time clashes with any other existing event

If validated==true, calls createEvent(Event e) to add the event to the Calendar’s list of events