

Ryan Szilvasi (rszilvasi@vt.edu)
Tyler Streator (tys305@vt.edu)
Junxiang Feng (junxiang@vt.edu)
Kechen Yu (kechen21@vt.edu)
Xiaolong Xuan (xxiaolong@vt.edu)

REQUIREMENT ANALYSIS:

Use Case: Creating a TODO Event

Preconditions:

- The user must provide information about the event to the application.

Main Flow

- The user can set the title and details of TODO events[S1]
- The application will store and display them.[S2]

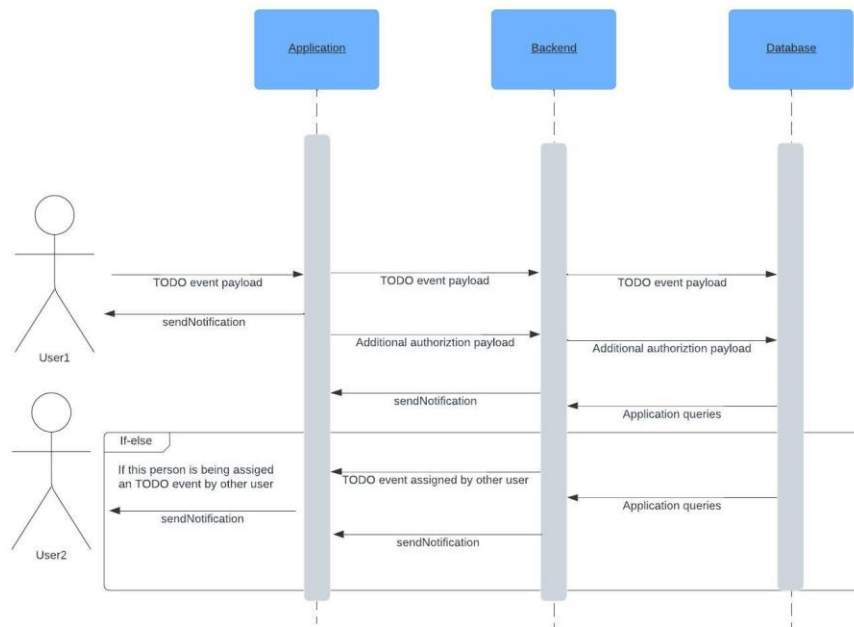
Subflows

- [S1] The application provides an option to add an event for the user to fill in the information
- [S2] The application arranges and displays the event titles

Alternative Flows

- [E1] There are no events to show

Sequence Diagram



Use Case: Application Sends Notification to the User

Preconditions

- The application must be a networked user and must have an email account in the system.

Main Flow

- Users can set a due date for the TODO events [S1].
- The application will send an email to alert the user [S2].

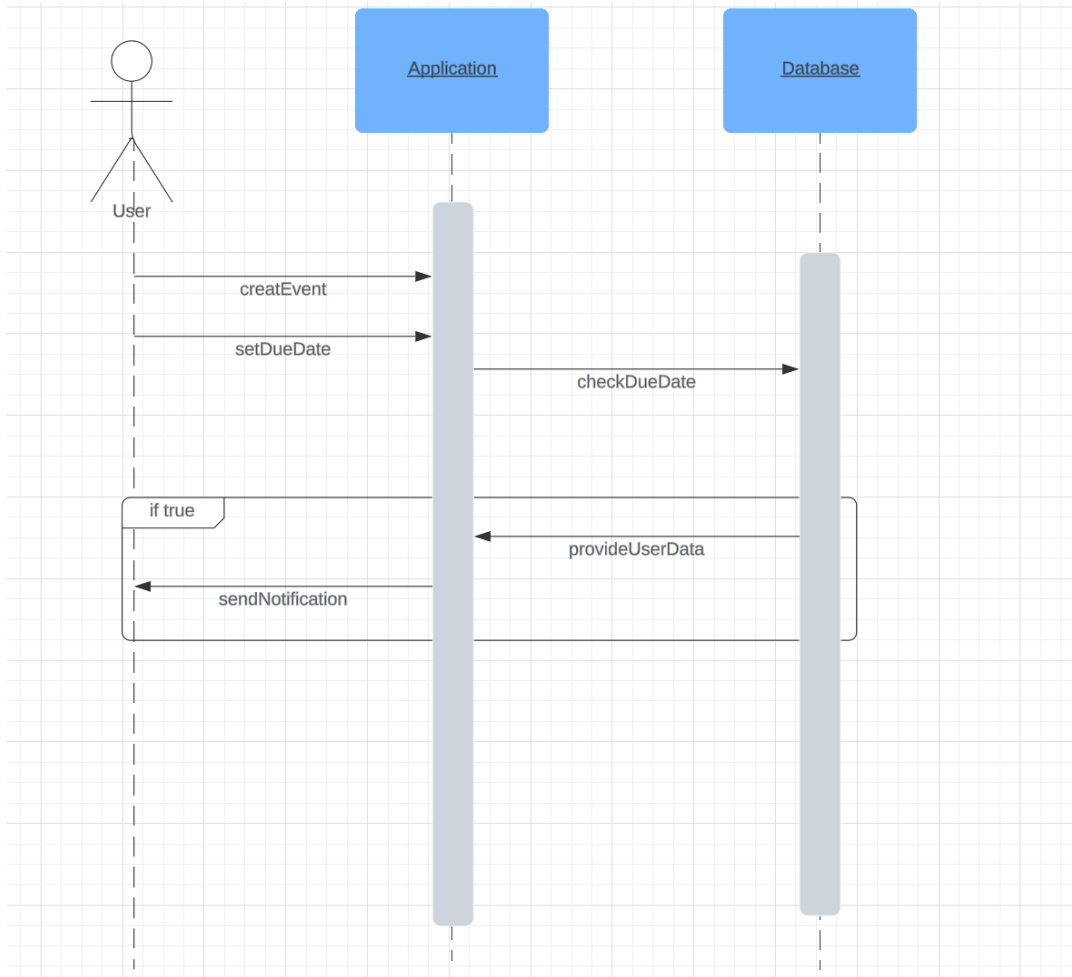
Subflows

- [S1] The application will update the view to show the event before the due date
- [S2] The application will send an email the day before the due date.

Alternative Flows

- [E1] The user has no upcoming due dates.

Sequence Diagram



Use Case: Sharing Event Between Users (such as Team Members and Manager)

Preconditions

- The user must have an event/task to share with another user
- Both users must be a networked user

Main Flow

- User 1 creates an event and sends it to User 2 [S1].
- User 2 must accept or reject the event [S2].

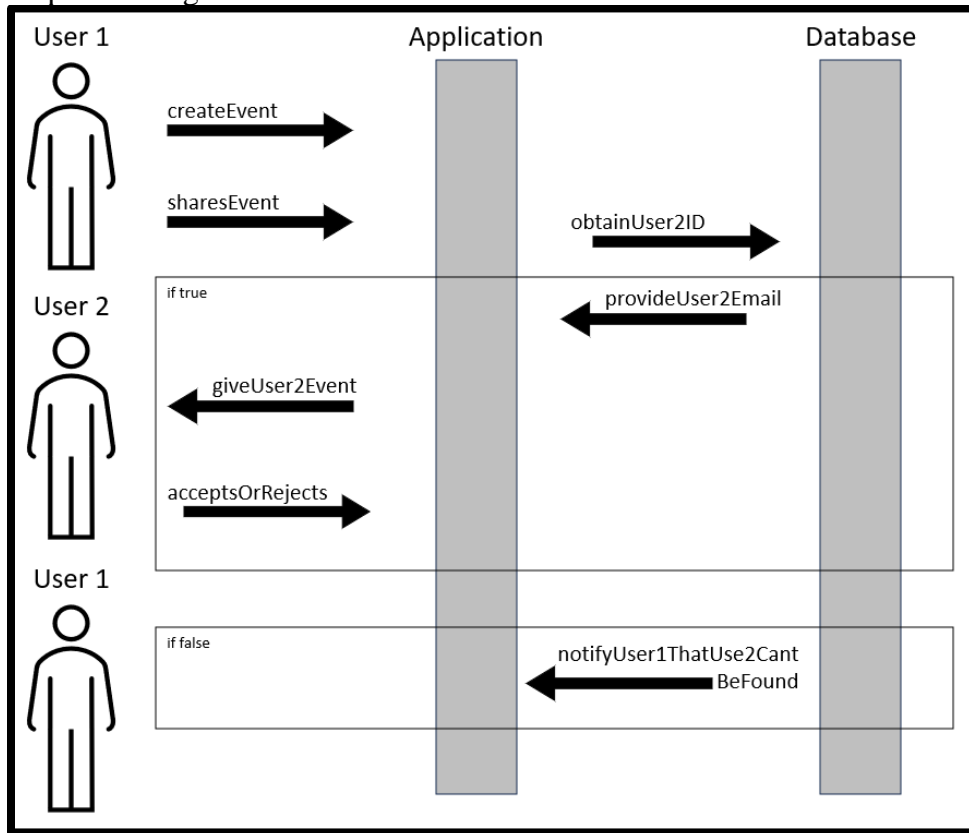
Subflows

- [S1] User 1 provides the event and User ID of User 2 that needs the event
- [S2] User 2 must review the event to determine if it should be rejected or not

Alternative Flows

- [E1] There is no event needs to be shared

Sequence Diagram



Use Case: Ordering Events

Preconditions

- The user must have entered tasks in the TODO app

Main Flow

- The user selects an option for prioritizing events [S1]
- The application provides a list of events sorted using the given ordering [S2]

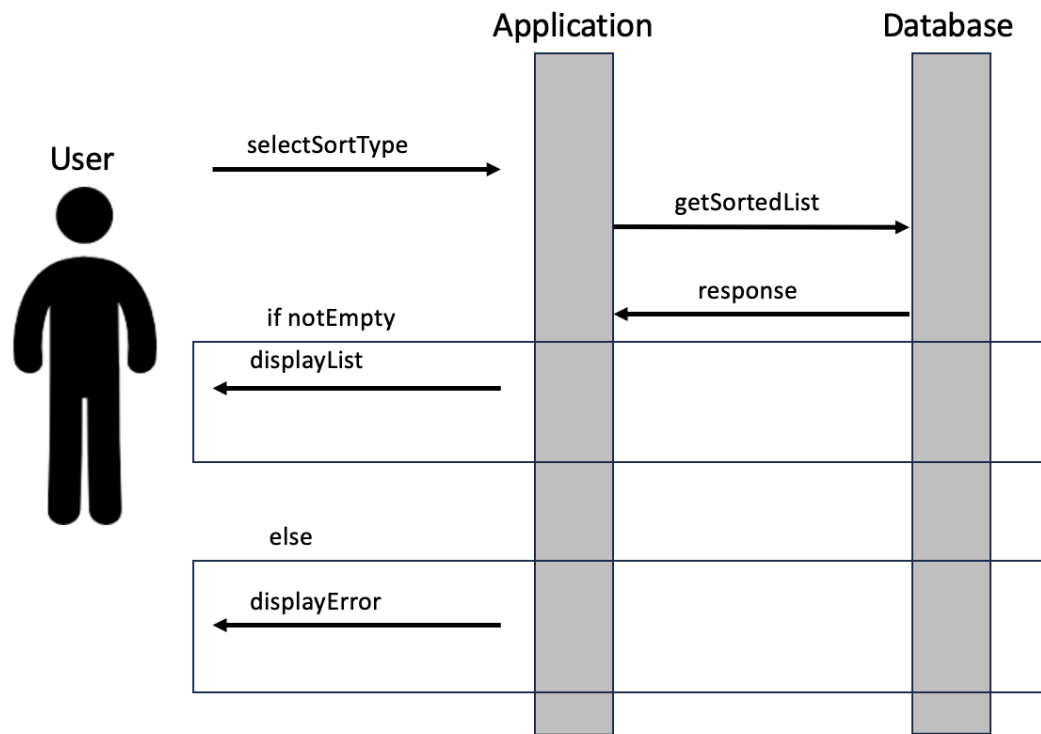
Subflows

- [S1] The application retrieves and sorts the list of events from the database
- [S2] The application displays the sorted list to the user

Alternative Flows

- [E1] There are no events entered

Sequence Diagram



Use Case: Coloring Events

Preconditions

- The user must be logged into the application
- There must be events in the application that can be colored.

Main Flow

- The user selects a specific event.
- The user selects the option to color the event.
- The user selects a color from the color picker.
- The application applies the selected color to the event and updates

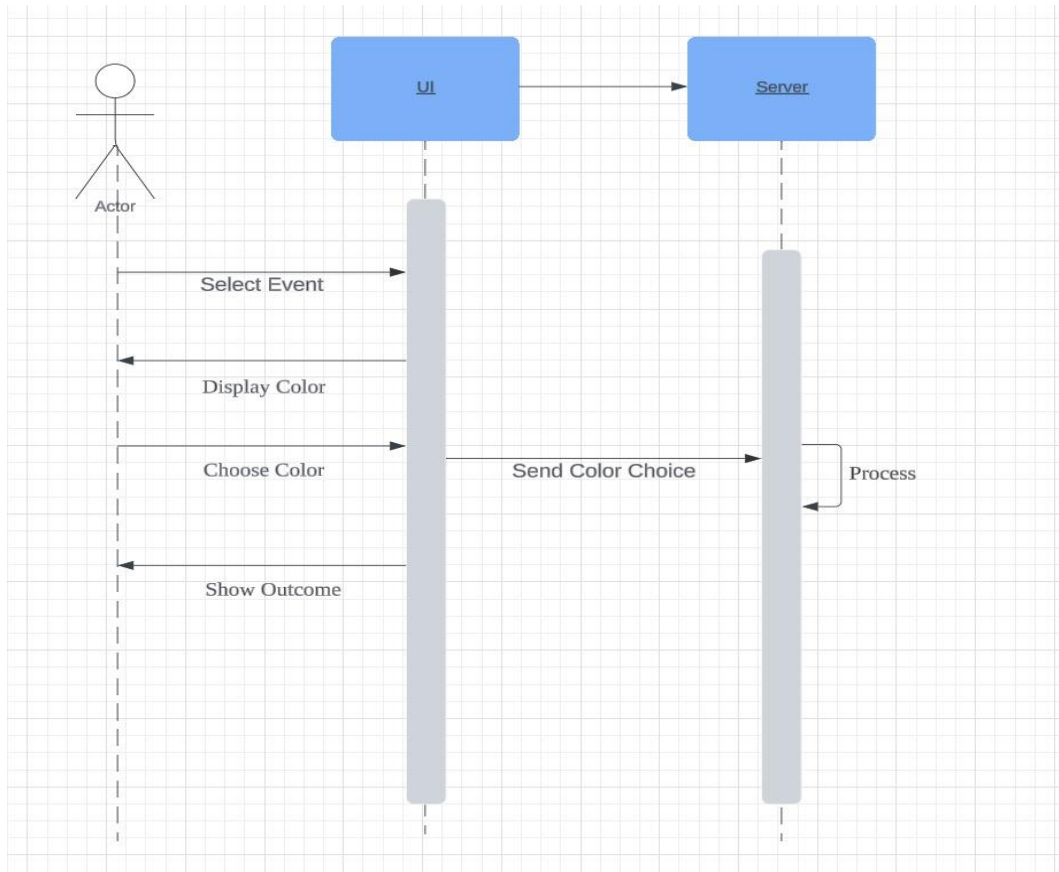
Subflows

- [S1] The users can search for a specific event and choose it for color labeling.
- [S2] The users can choose a color that the system provides.

Alternative Flows

- [E1] The users can cancel the chosen color during the color selection, and it will return to the list view.
- [E2] The system cannot apply the color.

Sequence Diagram



PROCESS DELIVERABLE – PROTOTYPING:

NEEDS TO BE STARTED	IN-PROGRESS	FINISHED
<div>Test UI Deadline: May 10</div> <div>Test Back End Deadline: May 25</div> <div>Ensure Back End and UI Communicate Deadline: June 20</div>	<div>Program UI Deadline: March 15</div> <div>Program Back End Deadline: March 22</div>	<div>Draw UI Deadline: February 20</div> <div>Think of Back End Deadline: March 10</div>
<div>SHARED WITH YOU</div> <div>Obtain W2 Form Deadline: April 1 Shared by: Manager</div>		<div>***** The user changed the color of the "Program UI" task to red to emphasize the task *****</div> <div>***** The user would be notified about the "Program UI" task because the deadline is quickly approaching *****</div>

Here is a prototype of our UI. The user will see all their tasks that need to be started, in-progress, or finished. To move from one category to the next, the user can drag the task to the appropriate category. In the "In-Progress" section, the "Program UI" task deadline is quickly approaching, thus, to emphasize this task, the user colored it red. In addition, the application will notify the user of this event's deadline. Lastly, the bottom row is for tasks that are shared with the user, the "Obtain W2 Form" was just shared with this user by their manager. The user must take this task and drag it to any of the other categories.

Add TODO Event

Event Title:

Event Assignee:

Event Description:

Event Starts:

Event Ends:

Confirm

Cancel

Here is another screen of our UI. In this screen, the user can create their TODO event, providing a title, description, assignee, start date, and end date of their event. Once the user hits the "Confirm" button, the user will be able to see the event on the first screen shown above.