# TODO Desktop Application

Team TODO:

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### Problem Statement

• Many programmers struggle to meet important deadlines for projects. As CS majors, we know it's important not to get behind on your work and this is only emphasized in professional settings.

# Proposed Solution

- Our solution is to provide a desktop application to give programmers notifications of deadlines, providing them with customizable views and ordering deadlines based on importance. The notifications will provide programmers with specific tasks they need to complete by the end of the day. Individuals can customize their views to ensure that important information is being highlighted. Lastly, individuals can order their tasks based on importance to ensure they are contributing to their team in a proper manner.
- As explained in, "Maximizing Efficiency A Comprehensive Review of Daily Productivity Growth with Todo Manager," a task manager leads to an increase in productivity and a decrease in distractions

### Use case: Creating a TODO

### event

#### Preconditions

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

#### Main Flow

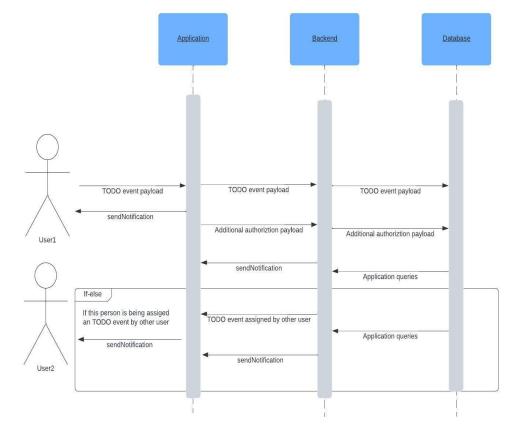
- The user can set the title and details of TODO events[S1]
- The application will store and display them.[S2]

#### 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



## Use case: Sharing Event Between Users

#### Preconditions

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

#### Main Flow

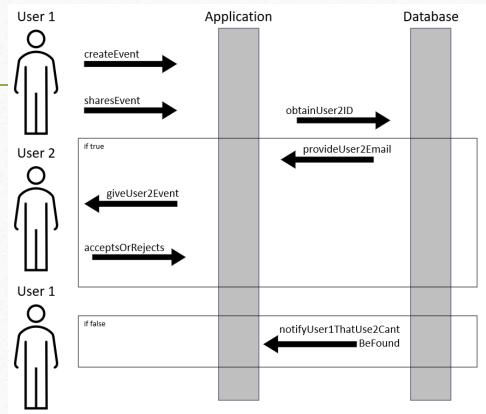
- User 1 creates an event and sends it to User 2 [S1].
- User 2 must accept or reject the event [S2].

#### 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

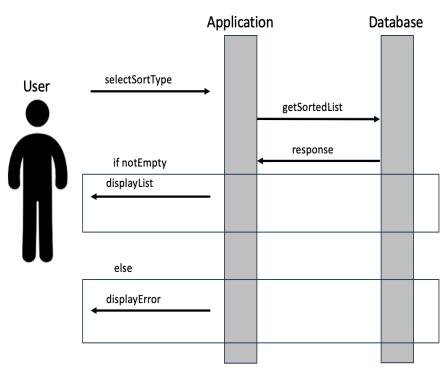
#### • Alternative Flows

• [E1] There is no event that needs to be shared



# 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.



### UI windows

- Login window
- Main UI window
- Add TODO event window
- Share TODO event window
- Delete TODO event window

# Login window

Login to TODO system		
Email:		
Password:		
Forget password	Sign up	
Login	Cancel	

### Main window



Test UI

Deadline: May 10

**Test Back End** 

Deadline: May 25

Ensure Back End and UI Communicate

Deadline: June 20

#### **IN-PROGRESS**

#### **Program UI**

Deadline: March 15

Program Back End

Deadline: March 22

#### **FINISHED**

Draw UI

Deadline: February 20

Think of Back End

Deadline: March 10

\*\*\*\*\*
The user changed the color of the "Program UI"

task to red to emphasize the task The user would be notified about the "Program UI" task because the deadline is

deadline is quickly approaching

SHARED WITH YOU

Obtain W2 Form

Deadline: April 1 Shared by: Manager

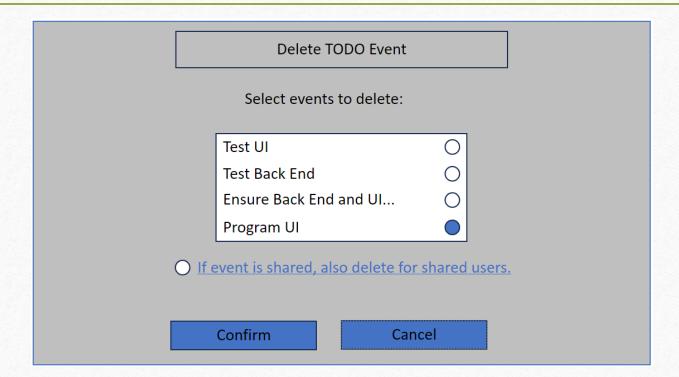
### Add TODO event window

Add TO	DDO Event
Event Title:	Event Assignee:
Event Description:	Event Starts:
	Event Ends:
Confirm	Cancel

### Share TODO event window



### Delete TODO event window



### Limitation

- Platform Dependency
  - O Most TODO desktop applications are developed for specific operating systems, limiting their usability across different platforms without additional develop
- Lack of Real-Time Collaboration
  - O Desktop applications often lack integrated real-time collaboration features, making it difficult for multiple users to work together synchronously on the same tasks.
- Limited Accessibility
  - O Desktop applications require installation on individual computers, restricting access to the application and its data to only those devices where it is installed.

### Future work

- Cross-Platform Compatibility
  - O Developing applications using technologies that allow them to run seamlessly across various operating systems, such as containerization or platform frameworks.
- Cloud Integration and Synchronization
  - O Implementing cloud-based synchronization and storage to facilitate real-time collaboration and access from any device, anywhere.
- Advanced Features Incorporation
  - O Integrating artificial intelligence to automate task scheduling, priority setting, and predictive task creation based on user behavior and preferences.

### Process and Tools Use

- Our project was developed iteratively through a prototyping process
- Figma
  - O Used to design our app's initial screen layout
- Lucidcharts
  - Used to model dependencies
- Microsoft Office
  - We used PowerPoint for project milestones, as well as to produce quick mockups during the prototyping stages

# Things We Learned

- Requirement Analysis and Use Cases helped us understand our project better
- Prototyping Process helped us continuously improve our project
- Storyboarding and wireframing helped us visually think of our project

### References

Perez, G., & Sheikh, N. (2023, March). Maximizing Efficiency A Comprehensive Review of Daily Productivity Growth with Todo Manager. International Journal of Research Publication and Reviews.

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