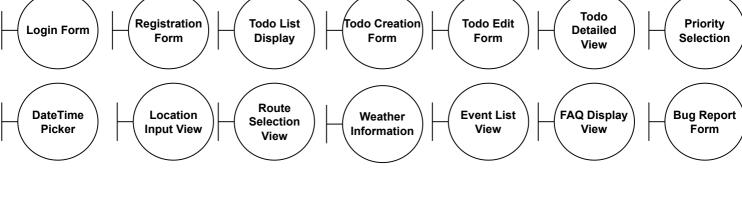


Key Boundary Class

interaction between Actor & System

UI Classes:



OneMap

Authentication

System

Input Validation

System

ToDo Creation System

ToDo Editing System

ToDo Deletion

System

ToDo Viewing

System

ToDo Priority

Management **System**

DateTime

Management **System**

Location

Management

System

Weather Data

System

System

Route

Suggestion System

Todos.

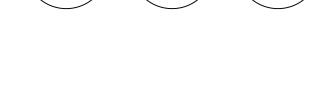
database

and update in database

to select Todo for detailed viewing.

API

API Handlers:



Weather

API

TicketMaster

Manages user login, registration & password changes Interacts with database to verify user credentials/register new users

Control Classes

Logic to realize use case

Checking format of dates and time, validating email address, ensuring required fields are not left blank

Controls the viewing of Todo items. Retrieves a list of Todo items from the database and presents them to the user for viewing. Allows the user

Handles the deletion of Todo items from the system. Verifies user

authorisation to delete specific Todo items, removes Todo from the

database and updates any related data/associations affected.

Handles creation of new Todo items, validates input data and saves into

Manages the editing of existing Todo items. Retrieval of selected Todo from database, allows user to modify its details, validates the changes

Manages priority settings of Todo items. Allows user to set priority level (e.g. red for high, green for low) for each Todo and updates priority in database. Also allows users to sort by these priorities after

Manages location settings for Todo items. Allows user to set indoor/outdoor for each Todo and provide suggestions for nearby locations based on OneMap API.

Handles date and time settings for Todo items. Allows user to set

datetime for each item and ensure there are no overlaps with existing

To discover events near user's location.

Process user's preferences and current conditions (weather) to

Provides current weather conditions, forecasts and potentially

suggests changes to planned Todos based on weather

Logic to suggest routes between locations (OneMap API)

Fetches and process weather information

suggest suitable events

Logic to optimise the routes (fastest time)

Optimisation **System**

Route

FAQ System

Manages overall process of bug reporting. Handles submission of bug **Bug Report** reports, validation of input data (e.g. valid email address) and storage Management of bug reports in database **System**

Displays FAQs. Retrieval FAQ information for display

