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## Case Study 6

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**Course(s):** Java DSA

**Day:** 18

### Problem Statement

Perry Software Solutions needs to design a software for a client which helps users to post the tasks. A user can create a Task with certain details and post it to a website, for which a tasker will be allocated and will further perform the task. Eg User can post a Task to pickup lunch from Home to Work location on a particular day and time.

As an engineer, you need to design a software solution using UML.

You must implement the below functionalities.

1. Create necessary Use Case Diagrams
2. Create necessary Class Diagrams
3. Create Sequence Diagram for a scenario how User will Post a Task and it will be fulfilled by a Tasker
4. Use Figma's FigJam to plot the same

### Steps

1. Identify UML Objects, with suitable attributes (eg: Task [title, pickUpLocation, dropLocation, date, time, description, goods etc..] , Tasker[name, phone, currentLocation etc..])
2. Draw the Use Case Diagram for scenario of posting a Task
3. Draw Class Diagrams for Task and Tasker
4. Draw the Sequence Diagram showing various events how the Task is Posted by end user and fulfilled by a Tasker

Reference Application: <https://www.airtasker.com/>