

# Lab Assignment - 1

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Type of Assignment: Group of 2

# Time Management Software (TMS)

The company needs the TMS tool for efficient time management for its executives. The software should let the executives register their daily appointment schedules. The information to be stored includes person(s) invited for a meeting, venue of the meeting, the time and duration of the meeting, and the purpose (e.g. for a specific project work). When a meeting involving many executives needs to be organized, the system should automatically find a common open slot in the calendars / diaries of the concerned executives, and make relevant entries in the calendars / diaries of those executives. It should also inform the concerned executives about the scheduled meeting through e-mail. If no common slot is available, TMS should help the secretary to rearrange the appointments of the executives in consultation with the concerned executives for making room for a common slot. To help the executives check their schedules for a particular day the system should have a very easy-to-use graphical interface dashboard. Since the executives and the secretaries have their own desktop computers / laptops / mobiles, the time management software should be able to serve several remote requests simultaneously. Many of the executives are relative novices in computer usage. Everyday morning the time management software should e-mail every executive his appointments for the day. Besides registering their appointments and meetings, the executives might mark periods for which they plan to be on leave. Also, executives might plan out the important jobs they need to do on any day at different hours and post it in their daily list of engagements. Other features to be supported by the TMS are the following: TMS should be able to provide several types of statistics such as which executive spent how much time on meetings. For which project how many meetings were organized for what duration and how many man-hours were devoted to it. Also, it should be able to display on the whole during any given period of time what fraction of time on the average each executive spent on meetings.

Prepare a document clearly indicating the themes, epics, and user-stories for the TMS.

# Restaurant Automation System (RAS)

A restaurant owner wants to computerize his order processing, billing, and accounting activities. He also expects the computer to generate statistical report about sales of different items. A major goal of this computerization is to make supply ordering more accurate so that the problem of excess inventory is avoided as well as the problem of non-availability of ingredients required to satisfy orders for some popular items is minimized. The computer should maintain the prices of all the items and also support changing the prices by the manager. Whenever any item is sold, the sales clerk would enter the item code and the quantity sold. The computer should generate bills whenever food items are sold. Whenever ingredients are issued for preparation of food items, the data is to be entered into the computer. Purchase orders are generated on a daily basis, whenever the stock for any ingredient falls below a threshold value. The computer should calculate the threshold value for each item based on the average consumption of this ingredient for the past three days and assuming that a minimum of two days stock must be maintained for all ingredients. Whenever the ordered ingredients arrive, the invoice data regarding the quantity and price is entered. If sufficient cash balance is available, the computer should print a cheque immediately against an invoice. Monthly sales receipt and expenses data should be generated whenever the manager would request to see them. The computer should be able to print a menu card containing the menu items and their prices.

Prepare a document clearly indicating the themes, epics, and user-stories for the RAS.