

DOORSTEP: An internet-based application that provides A-to-Z, services in Thanjavur like catering, plumbing, medicine delivery, packing and moving, Ironing, washing clothes, household workers, painters availability, Load vehicles, and so on. This app should collect the GPS location of the user to confirm whether the user is from Thanjavur. Then the user must provide their mobile number to login into the app. Once logged in to the app, the must collect the input from the user from the search box and also it must list available services in their nearest location by default as different categories. Upon selecting the required service, the app must list all the service providers and their service charges. The information of the service providers must be displayed with their name, mobile number, service charge, and customer rating (5-star rating). The app must collect feedback from the users about services after the completion of the work. Based on the feedback the service providers must be ranked. The higher-rank service providers must be listed on top and frequent low-rated service providers must be from the listing to safeguard the users.

- a) The incremental model is not suitable for this app development" - Answer with yes or no. If yes is your answer then justify the reason with a suitable process model. If your answer is no, then justify your answer.
- b) Perform requirements analysis to understand the requirements for the scenario with respect to FURPS. Categorize them into use cases, features, functional and non-functional requirements.
- c) Draw the class, state, use-case, and DFD (till level 2) diagrams for the given scenario.
- d) Based on the requirements model, compute the estimation in person month for the scenario by considering 6 work units per class and 29 person-days per class. Assume that one person is paid with 2300 INR per day.
- e) Draw a Data-centered architecture diagram for any two modules of the app
- f) From the scenario-based model, perform the integration testing and system testing
Write the Software documentation for the app.