Department of computer science
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LAB: State Transition Model

TECHNICAL TAMPRARIES

Technical temporaries is a company that specializes in placing employees in business for short periods of time. The company specializes in "temporaries" who have a high degree of proficiency in working with PC software, such as word processing and spread sheets, as well as other technical areas. Each employee must pass proficiency tests for areas in which they wish to be certified. The system described below is responsible for matching employees with short term openings that are available.

LIST OF BUSINESS ACTIVITIES

a. Business telephone the company to request temporaries to fill specific positions. The requests are used to create a Temporary Employment Request Record. If the business requesting the temporary employee is not on the employer master file, a record created for it.
b. Employees are selected to fill the temporary positions based on employee qualifications and availability. The Temporary Employee Master and the Temporary employment request files are used to list all qualified candidates.
c. Contracts are sent to the selected temporaries. Information is printed from the employee master, employer master, and temporary employment request files.
d. Returned contracts are used to update the employee master file. The temporary employment request file is updated with scheduling and personnel information.
e. Monthly schedules are printed for each employee. The contain information from the employee master, the employer master, and the temporary employment request files, and they are sequenced by employment date for each employee.
f. Notification is sent to the business requesting the temporary employees confirming the date and qualifications of the workers as well as their names.

You have been given a task to analyze the problems in the working of a company named Technical Temporaries and for this purpose you have to answer the following questions:

a) Identify the potential use-cases in the above mentioned system and draw Use case model.
b) Identify and list the potential objects involved in the system
c) Identify potential classes involved in the system based on objects.
d) Draw a State Transition Model of the above mentioned case study.

Note: Make necessary assumptions but do state them.