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EX NO:6 E-TICKETING
DATE:

AIM:

To draw the diagrams[use case, activity, sequence, collaboration, class, state chart, component, deployment, package] for the E-ticketing system.

SL.NO SOFTWARE REQUIREMENTS SPECIFICATION

1.0 Hardware Requirements

1.1 Software Requirements

1.2 Problem Analysis and Project Plan

1.3 Project description

1.4 Reference

1.0 HARDWARE REQUIREMENTS:

Intel Pentium Processor I3/I5

1.1 SOFTWARE REQUIREMENTS:

Rational rose / Argo UML

1.2 PROBLEM ANALYSIS AND PROJECT PLANNING

In the E-Ticketing system the main process is a applicant have to login the database then the database verifies that particular username and password then the user must fill the details about their personal details then selecting the flight and the database books the ticket then send it to the applicant then searching the flight or else cancelling the process

1.3 PROJECT DESCRIPTION:

This software is designed for supporting the computerized e-ticketing. This is widely used by the passenger for reserving the tickets for their travel. This E-ticketing is organized by the central system. The information is provided from the railway reservation system.

1.4 REFERENCES

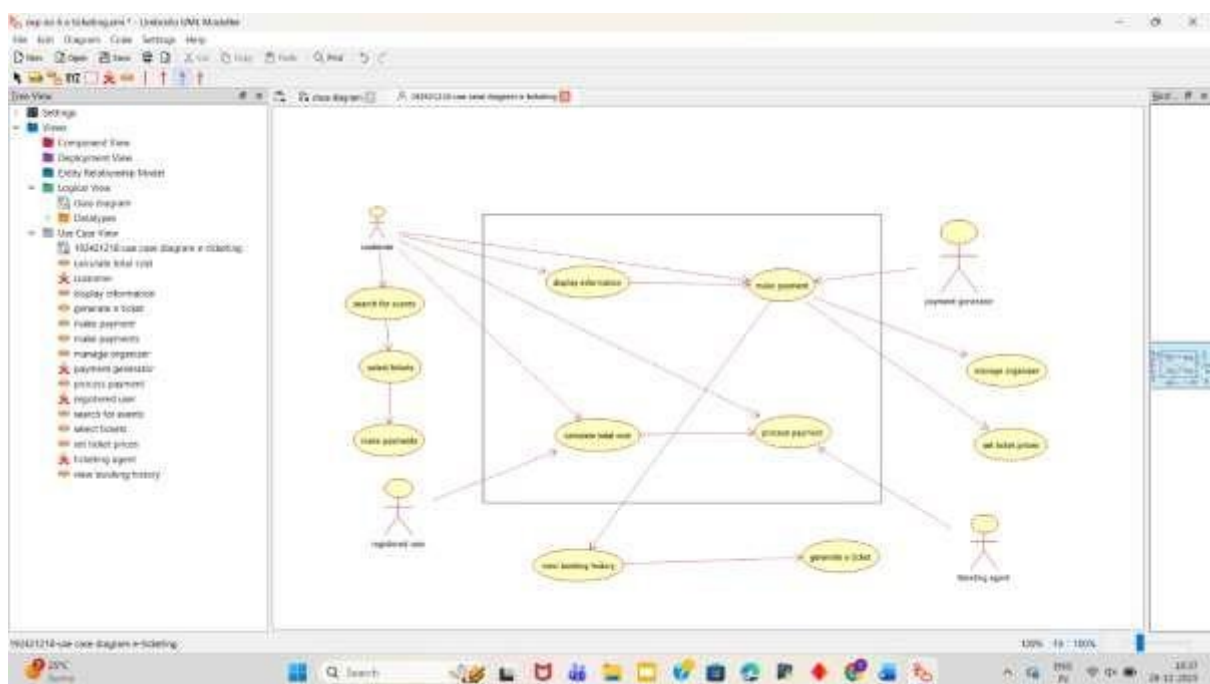
IEEE Software Requirement Specification format.

USE CASE DIAGRAM:

This diagram will contain the actors, use cases which are given below

Actors: Passenger, Railway reservation system..

Use case: Status, reservation, cancellation, enter the train number, enter the number of seats, availability of seats, acceptance of ticket.



CLASS DIAGRAM:

This diagram consists of the following classes, attributes and their operations.

CLASSES ATTRIBUTES OPERATIONS

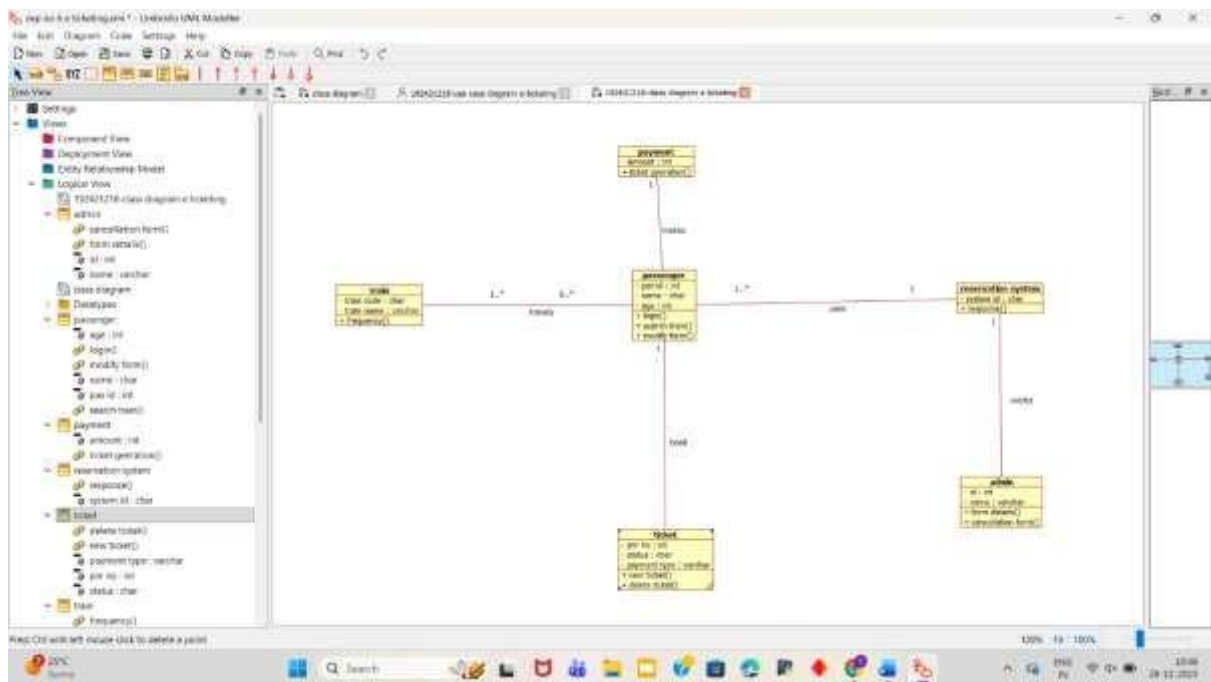
Central computer Train name,

Passenger name

Reservation(), login()

Passenger Passenger age Login()

Railway reservation system Train number Cancellation()

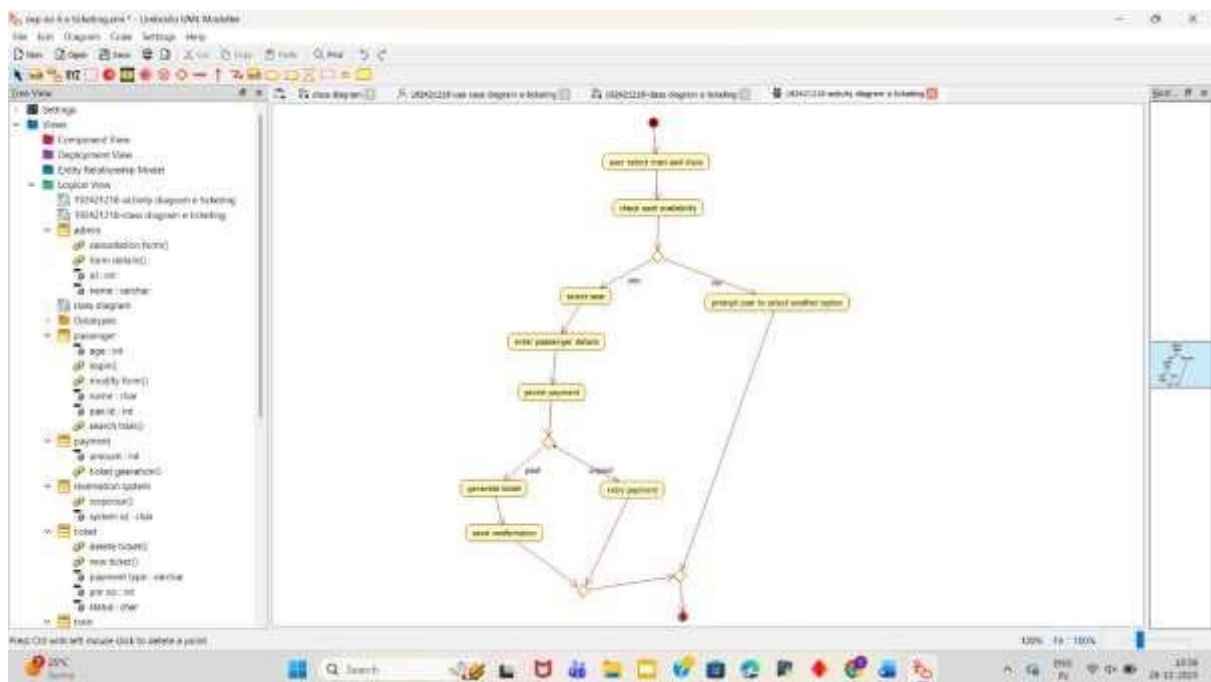


ACTIVITY DIAGRAM:

This diagram will have the activities as Start point, End point, Decision boxes as given below:

Activities: enter the train number, enter the number of seats, acceptance of ticket, accept seat.

Decision box: Check availability of seats whether it is present or not.



SEQUENCE DIAGRAM:

Object: Passenger, Railway reservation system, Central computer.



The screenshot displays a UML modeling environment with a project tree on the left and a class diagram in the center. The project tree includes folders for 'src' and 'test', with sub-elements like 'Ticketing', 'Train', 'Station', and 'Passenger'. The class diagram shows the following structure:

- Classes:**
 - `..Ticket` (yellow box)
 - `..Passenger` (yellow box)
 - `..Train` (yellow box)
 - `..Station` (yellow box)
 - `..TicketingApp` (yellow box)
 - `..UnregisteredUser` (yellow box)
 - `..Payment` (yellow box)
- Associations and Relationships:**
 - `..Ticket` to `..Passenger`: "add ticket" (solid line), "modify ticket" (dashed line).
 - `..Ticket` to `..Train`: "book ticket" (solid line), "cancel ticket" (dashed line).
 - `..Ticket` to `..Station`: "buy ticket" (solid line), "return payment" (dashed line).
 - `..Ticket` to `..Payment`: "make payment" (solid line), "return payment" (dashed line).
 - `..TicketingApp` to `..UnregisteredUser`: "get registered user" (solid line).
 - `..TicketingApp` to `..Ticket`: "search ticket" (solid line).
 - `..TicketingApp` to `..Train`: "search train" (solid line).
 - `..TicketingApp` to `..Station`: "search station" (solid line).

The interface also shows a top menu bar with options like File, Edit, Diagram, Class, Settings, and Help. The bottom status bar indicates the zoom level is 100%.

It is a technique to describe the behavior of the system. It describes all the possible states

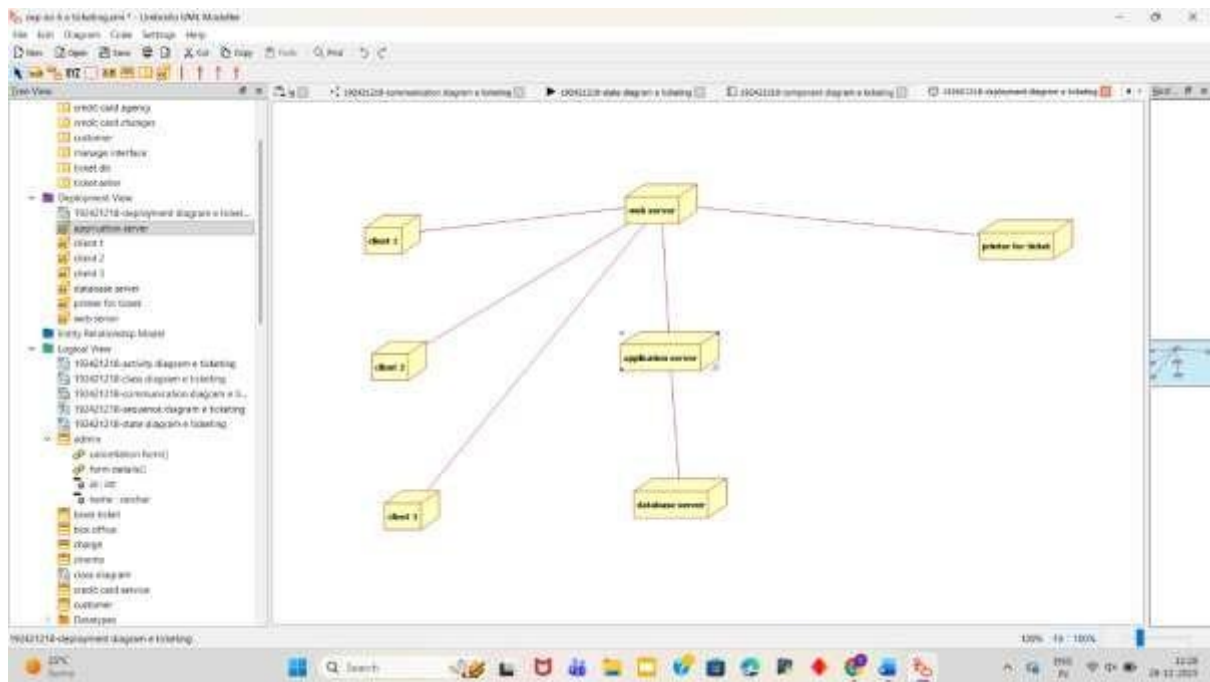
[illegible]

The component diagram is represented by figure dependency and it is a graph of design of figure dependency. The component diagram's main purpose is to show the structural relationships between the components of a systems. It is represented by boxed figure.

The screenshot displays the UML Modeler interface with a sequence diagram titled "190421218 sequence diagram v ticketing". The diagram illustrates the process of booking a ticket. It features two actors: "customer" and "check". There are several objects: "group seats", "individual seat", "ticket seller", "credit card changes", "credit card expiry", "ticket ok", and "manage interface". The sequence of messages is as follows: 1. "customer" sends "group seats" to "group seats". 2. "check" sends "individual seat" to "individual seat". 3. Both "group seats" and "individual seat" send messages to "ticket seller". 4. "ticket seller" sends "charge" to "credit card changes". 5. "manage interface" sends "purchase" to "credit card changes". 6. "credit card changes" sends "credit card expiry" to "credit card expiry". 7. Finally, "credit card expiry" sends "ticket ok" to "ticket ok". The left sidebar shows a project tree with various UML diagrams and a package named "actors". The bottom status bar indicates the diagram is a "190421218-component diagram v ticketing" and shows system information like CPU usage and date.

DEPLOYMENT DIAGRAM:

A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3- dimensional box. Dependencies are represented by communication association.



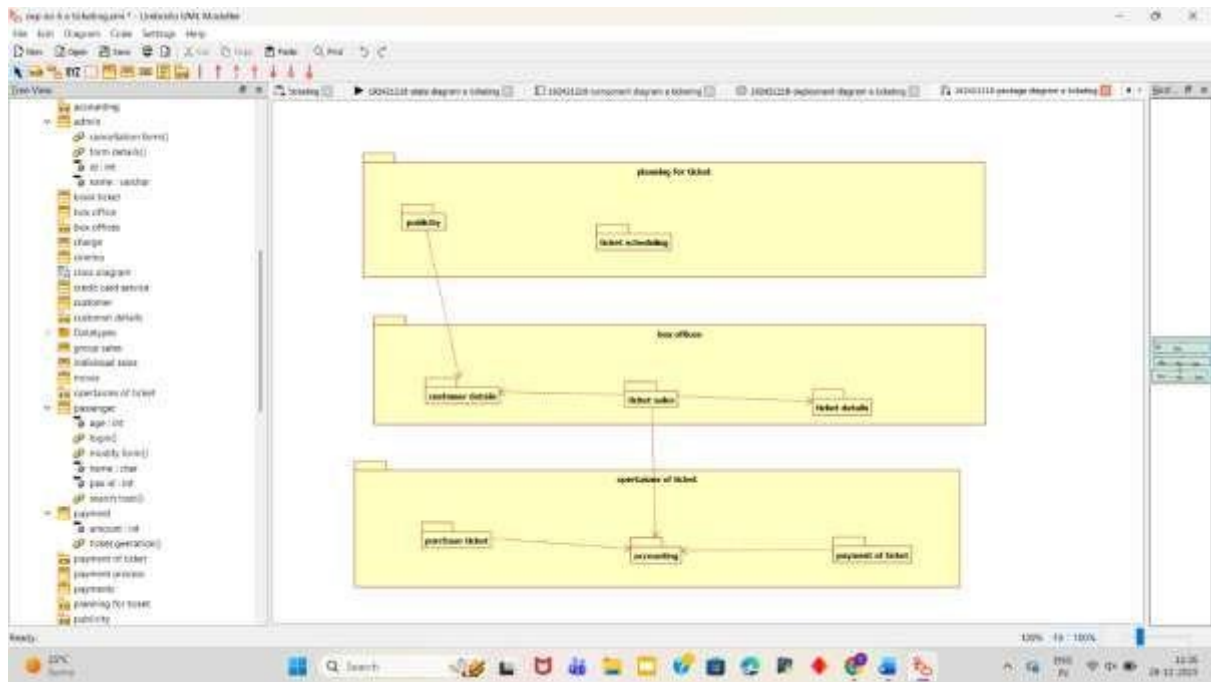
PACKAGE DIAGRAM:

A package diagram in unified modeling language that depicts the dependencies between the packages that make up a model. A Package Diagram (PD) shows a grouping of elements in the

OO model, and is a Cradle extension to UML. PDs can be used to show groups of classes in Class

Diagrams (CDs), groups of components or processes in Component Diagrams (CPDs), or groups of processors in Deployment Diagrams (DPDs). There are three types of layer.

They are o User interface layer o Domain layer o Technical services layer



RESULT:

Thus the diagrams[use case, activity, sequence, collaboration, class, statechart, component, deployment, package] for the E-ticketing system has been designed, executed and output is verified.