

Ex: No:02	BOOK BANK REGISTRATION SYSTEM
Date:	

AIM:

To draw the diagrams [usecase, activity, sequence, collaboration, class, statechart, collaboration, component, deployment, package] for the Book bank registration 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 PLAN

To simplify the process of applying passport, software has been created by designing through rational rose tool. Initially the applicant login the passport automation system and submits

his details. These details are stored in the database and verification process done by the passport administrator, regional administrator and police the passport is issued to the applicant.

1.3 PROJECT DESCRIPTION:

This software is designed for the verification of the details of the student by the central

computer. The details regarding the student will be provided to the central computer through the

administrator in the book bank and the computer will verify the details of student and provide approval to the office. Then the books that are needed by the student will issue from the office to the him.

1.4 REFERENCES:

IEEE Software Requirement Specification format.

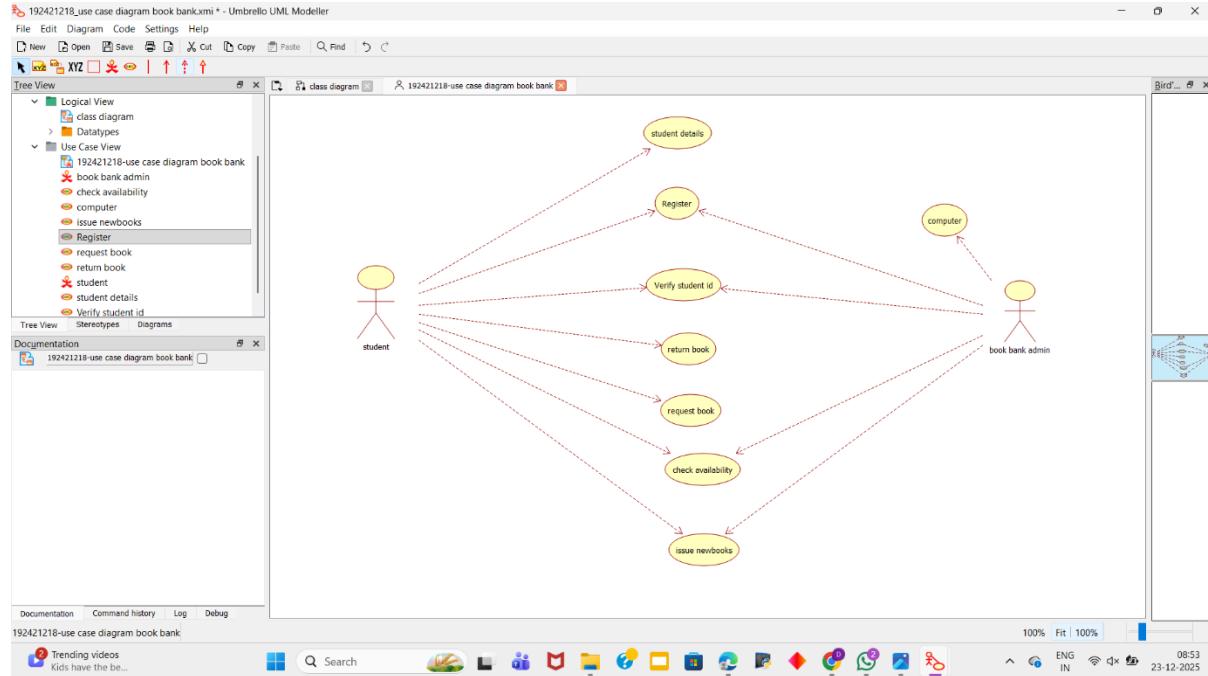
USE CASE DIAGRAM:

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

Actors: Student, book bank admin.

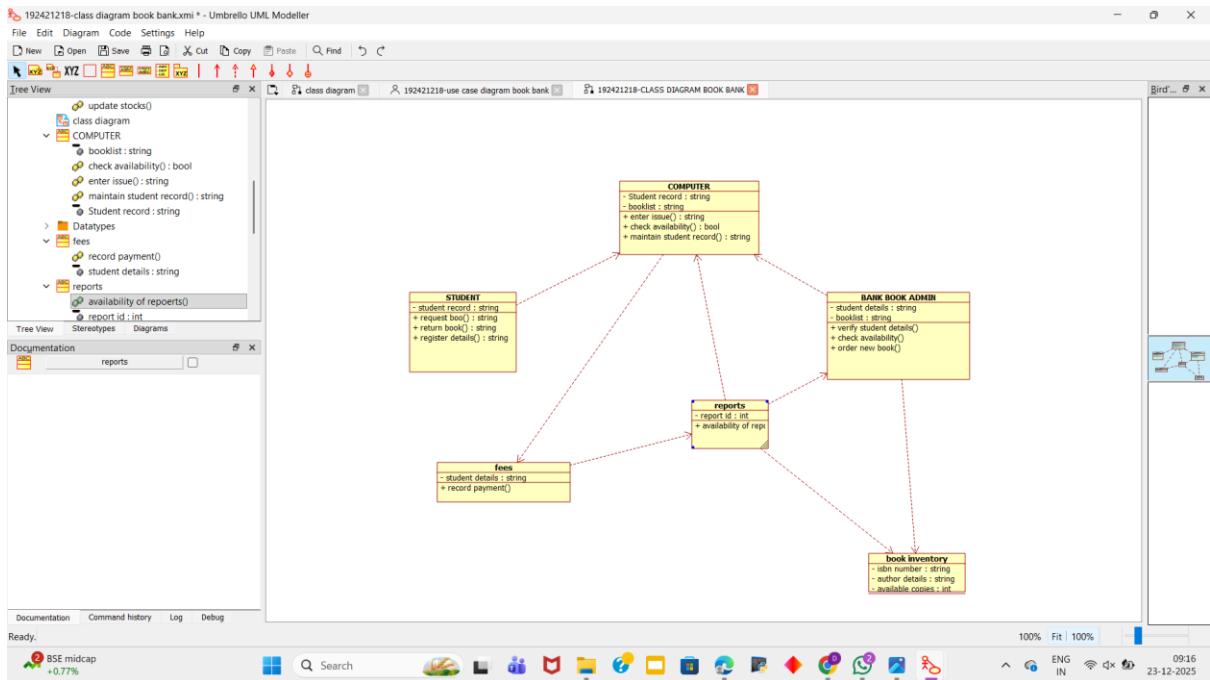
Use case: Student details, register, verify student id, return previous books, request

of books, issue of books, check of book availability



CLASS DIAGRAM:

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



CLASSES ATTRIBUTES OPERATIONS

Computer Student record,

Book list

Enter issue(),

Check availability()

Stud Student details Request for books(),

Register()

Admin Student details,

Book list

Verify student id(),

Issue books()

ACTIVITY DIAGRAM:

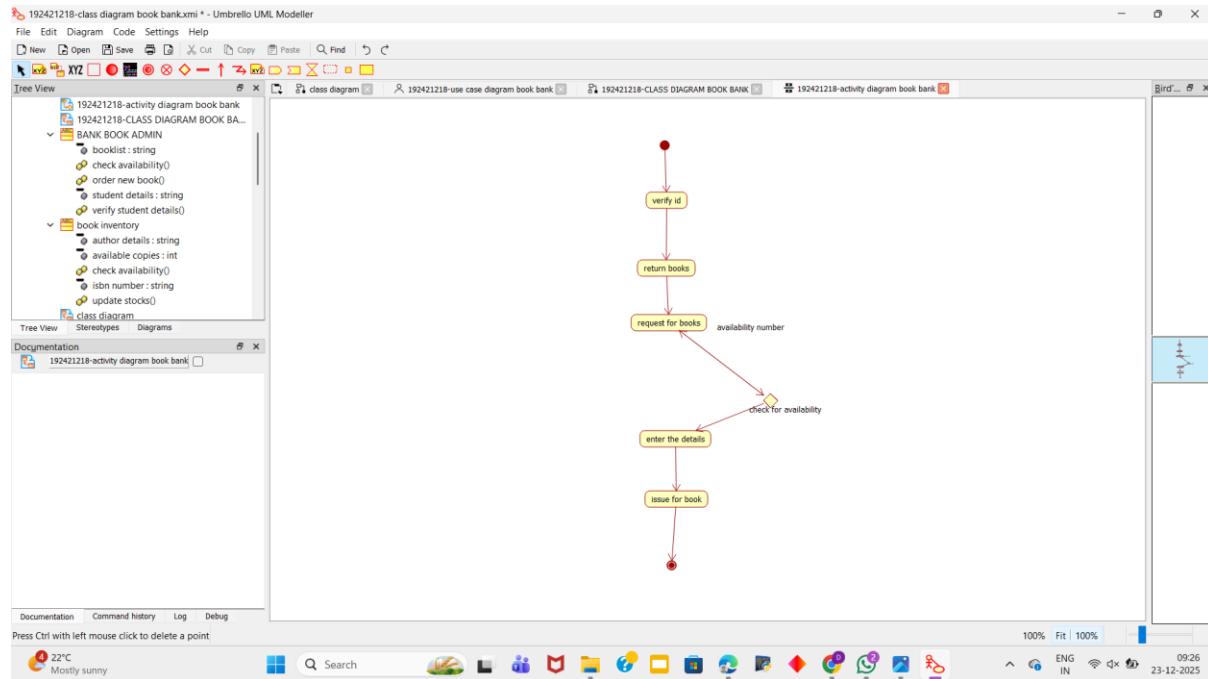
This diagram will have the activities as Start point, End point, Decision boxes as given

below:

Activities: Verify id, return books, request for books, enter book issue details in

system, issue books

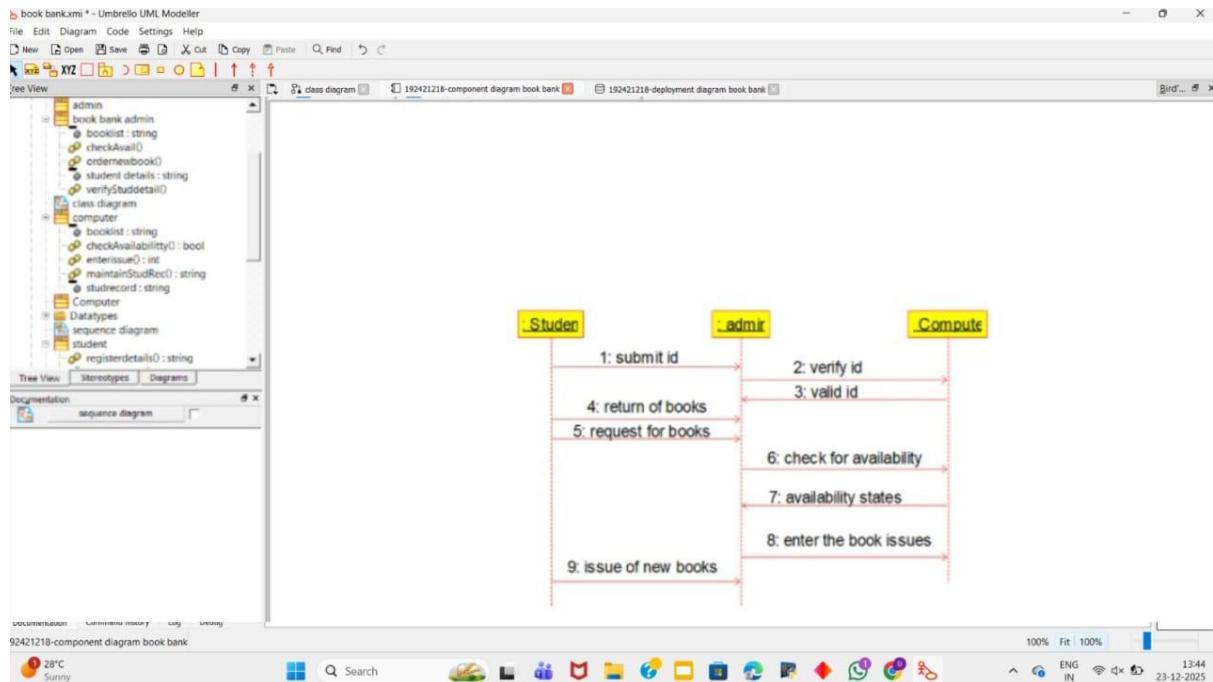
Decision box: Check availability of books whether it is present or not.



SEQUENCE DIAGRAM:

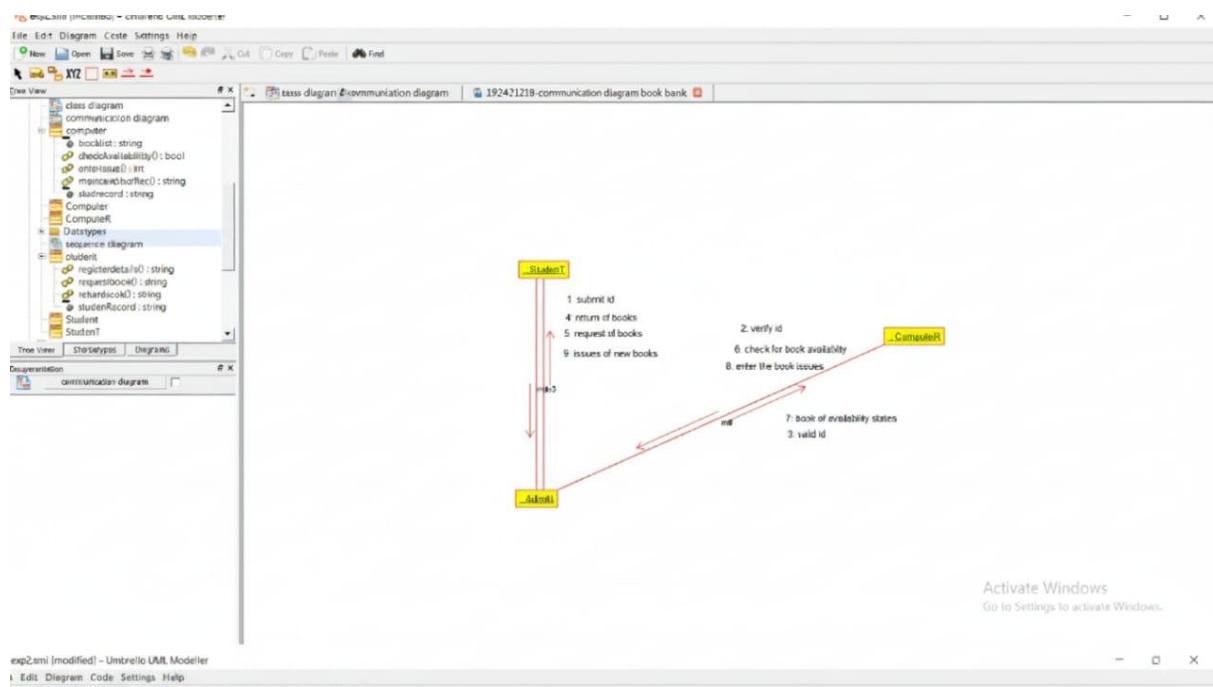
This diagram consists of the objects, messages and return messages.

Object: Stud, admin, computer



COLLABORATION DIAGRAM:

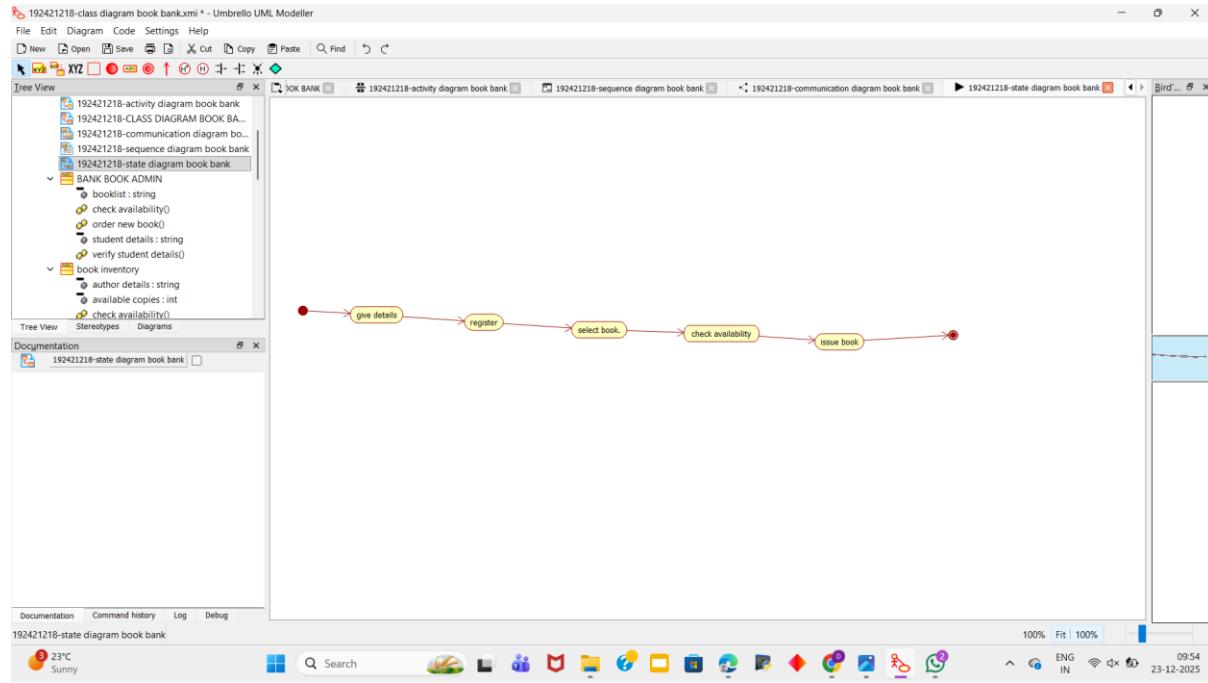
This diagram contains the objects and actors. This will be obtained by the completion of the sequence diagram and pressing the F5 key.



STATE CHART DIAGRAM

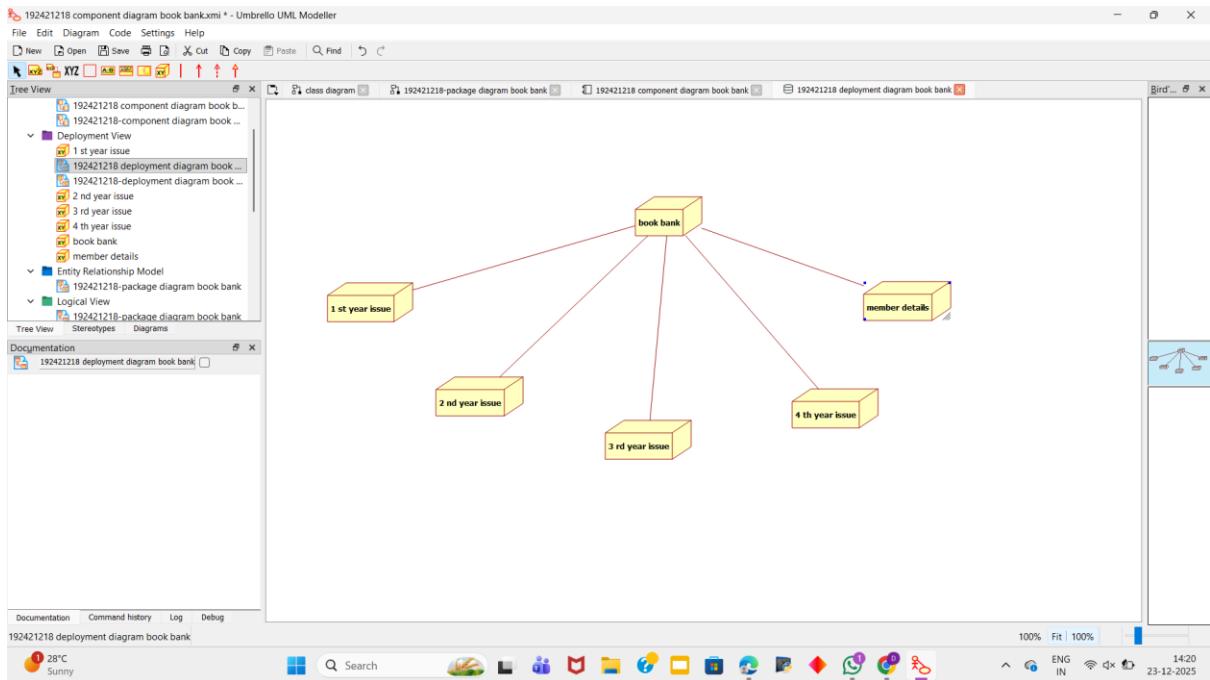
The purpose of state chart diagram is to understand the algorithm involved in performing

a method. It is also called as state diagram. A state is represented as a round box, which may contain one or more compartments. An initial state is represented as small dot. An final state is represented as circle surrounding a small dot.



COMPONENT DIAGRAM

The component diagram's main purpose is to show the structural relationships between the components of a system. It is represented by boxed figure. Dependencies are represented by communication association.



DEPLOYMENT DIAGRAM

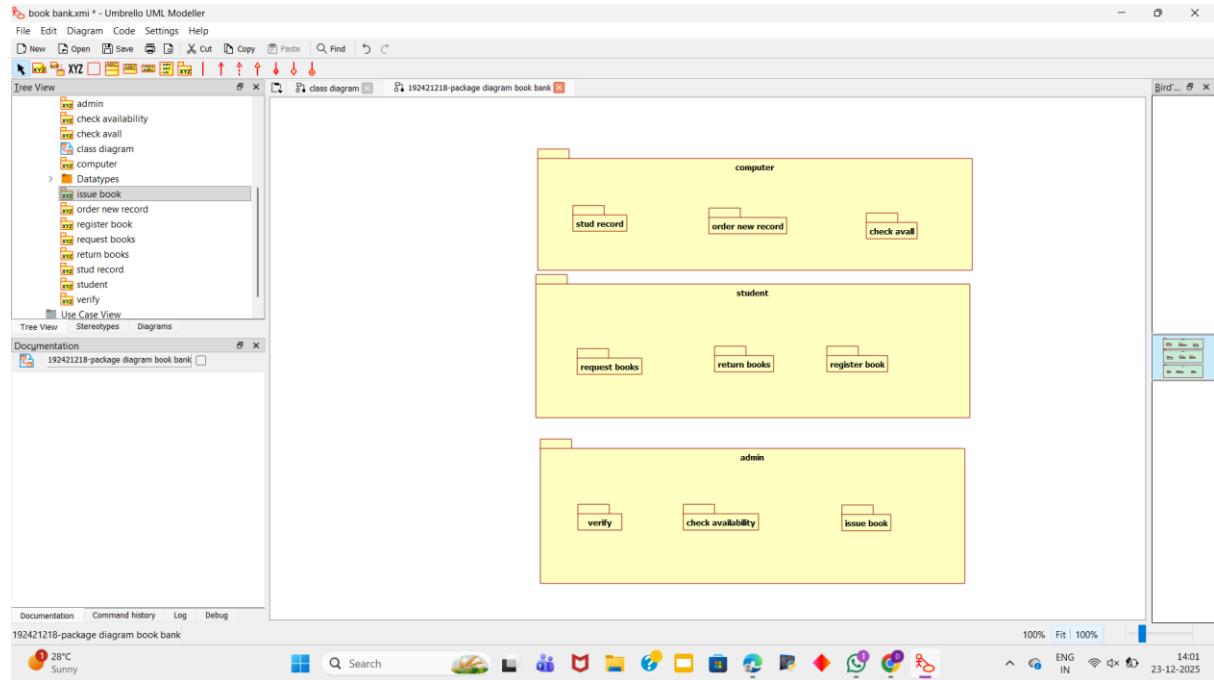
A deployment diagram in the unified modeling language serves to model the physical deployment of artifacts on deployment targets. Deployment diagrams show "the allocation of artifacts to nodes according to the Deployments defined between them. It is represented by 3-dimensional box. Dependencies are 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, collaboration, component, deployment, package] for the Book bank registration system has been designed, executed and output is verified.