**OOAD LAB**

**EXPERIMENTS:**

**1. Identify a Software System and document the Software Requirement Specification for the**

**identified system.**

* AIM
* PROBLEM STATEMENT
* SOFTWARE REQUIREMENT SPECIFICATION
* OVERALL DESCRIPTION
* DIAGRAM RESULT

<https://www.youtube.com/watch?v=klMyKL6luS8>

**2. Sketch the class diagrams to identify and describe key concepts and their relationships.**

* AIM
* DEFINITION
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=ao1ESgIy2Ws>

**3. Identify Use Cases and develop the Use Case model.**

* AIM
* PROCEDURE
* DEFINITION
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=sQgoFjxSdxo>

**4. Identify the conceptual classes and develop a Domain Model with Class Diagrams.**

* AIM
* PROBLEM STATEMENT
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=ao1ESgIy2Ws>

**5. Using the identified scenarios, find the interaction between objects and represent them using**

**UML Sequence and Collaboration Diagrams.**

* AIM
* HARDWARE REQUIREMENTS
* SOFTWARE REQUIREMENTS
* PROJECT DESCRIPTION
* SEQUENCE DIAGRAM CONSIST OF
* COLLABORATION DIAGRAM CONSIST OF
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=gzKe7yt8qEo>

<https://www.youtube.com/watch?v=Z3qYRa0AWp0>

**6. Sketch the Activity and State Diagrams for an identified application.**

* AIM
* HARDWARE REQUIREMENTS
* SOFTWARE REQUIREMENTS
* PROJECT DESCRIPTION
* DEFINITION
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=Iz6FnvhQ4Ms>

<https://www.youtube.com/watch?v=iaX11vYFhZ4>

**7. Sketch the UML package diagram to show the User Interface, Domain objects and Technical**

**services.**

* AIM
* HARDWARE REQUIREMENTS
* SOFTWARE REQUIREMENTS
* PROJECT DESCRIPTION
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=84N1D6fI-i4>

**8. Sketch the component diagram assuming that you will build your system by reusing existing**

**components along with few new components.**

* AIM
* HARDWARE REQUIREMENTS
* SOFTWARE REQUIREMENTS
* PROJECT DESCRIPTION
* NOTATION
* PURPOSE
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=_iiOOxIDrGA>

**9. Sketch the deployment diagrams to model the runtime architecture of your application.**

* AIM
* HARDWARE REQUIREMENTS
* SOFTWARE REQUIREMENTS
* PROJECT DESCRIPTION
* SYMBOL AND NOTATION
* DIAGRAM
* RESULT

<https://www.youtube.com/watch?v=nkvj1RV_ApA>

**10. Apply appropriate design patterns to improve the reusability and maintainability of the**

**software system.**

* AIM
* SOFTWARE DESCRIPTION
* USE CASE DIAGRAM
* ACTIVITY DIAGRAM
* CLASS DIAGRAM
* SEQUENCE DIAGRAM
* STATE DIAGRAM
* DEPLOYMENT DIAGRAM
* COMPONENT DIAGRAM
* RESULT