SDLC (Software Development Life cycle)

Planning: *Requirements Gathering*: The requirements for the Request System were gathered, including the need to collect user information, date, staff name, staff Id, requisition id, and total cost, as well as generate a status (pending, approved, not approved) and approval reference number.

Feasibility Study: The feasibility of the project was studied, and it was determined that the project could be completed using Python.

Analysis: *Use Case Analysis*: including submitting a new request, displaying all requests, and displaying request details. The use cases for the Request System were identified.

Design: *System Design:* The system design was created, including the concept which are given in the paper of the Request System.

Interface Design: The user interface was designed, including the input prompts and output formats.

Implementation: *Coding:* The Python code was written to implement the Request System class and its methods.

Unit Testing: Unit tests were written to test individual methods and functions.

Testing: Testing is a part of SDLC. While gone through testing I can check some importing things like my code is working properly. Code can see any error while working the code as well is full fill the requirement of scenario moreover, code make proper requesting system.

System Testing: System tests were written to test the system whole are working.

Maintenance: In Maintenance some points are like Bug fixing, Enhancements, update the system, security.

*Bug Fixing*: Some Bugs were identified by the people while using requisition system then fixing those errors.

*Enhancements*: Enhancements were made to the system to improve its functionality.

*Update the system:* Time to time take new update in system is very important to give customer a better UpToDate system that make their life easier.

*Security:* To make all time secure our system is very important while anyone use our system, so security of their data is our responsibility.