

Software Development Life Cycle (SDLC) Documentation

Project Name: Help Desk Ticketing System Prototype

1. Planning

- ☐ Understanding the client's needs and establishing the projects scope are part of the first step.
- ☐ In our situation, acquiring client needs and comprehending the parameters of the Help Desk ticketing system prototype are both part of the planning step.

2. Requirements Analysis

- ☐ This step involves a thorough examination of the clients needs and operational procedures. In our situation, the thorough customer requirements supplied at the start of the project serve as a representation of the requirements analysis.

3. Solution Design

- ☐ Plan how the various components of the system will interact.
- ☐ Create a high-level design for the Ticket class and its methods.

4. Detailed Design

- ☐ Specify the data structures and algorithms needed for ticket management.
- ☐ Consider how to handle ticket statistics.

5. Construction

- ☐ This is where the actual coding takes place.
- ☐ Our Python code implementation falls under this stage, where we write the code for the Help Desk ticketing system.
- ☐ Implement the Ticket class and its methods as per the requirements.
- ☐ Ensure that the code is well-structured and follows best practices.

6. System Testing

Before the developed system can be delivered to the client, it must go through rigorous testing to verify that the specified requirement has been fulfilled.

- ☐ After construction, its crucial to thoroughly test the system.
- ☐ Conduct thorough testing of the ticketing system to identify and resolve any bugs or issues.
- ☐ Test various scenarios, Including ticket submission, response handling, reopening tickets, and statistics calculations.
- ☐ Verify that the system meets the client's requirements.

7. Deployment

- ☐ Deploy the ticketing system to the intended environment.
- ☐ Ensure that all necessary configurations are in place.
- ☐ Prepare for end-user access.

8. Operation

- ☐ This stage involves operating and maintaining the system in a live environment.
- ☐ For our project, this might be as simple as running the python script on a server or local machine.

9. Maintenance

- ☐ This is where you correct errors or develop new functionality.
- ☐ In our case, its important to keep the code up-to-date if any changes to requirements or issues arise.