Software Development Lifecycle

Waterfall model：

System plan

Requirement analysis

System design

Coding

Testing

Maintain

Our tasks in each phases[1]

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| Phases | Main tasks | Documents should be finished |
| System plan | 1. Investigation of user requirements and environment 2. Demonstration of project feasibility 3. Make a rough development plan of the system | 1.Feasibility report  2.Project preliminary development plan |
| Requirement  analysis | 1. Determine the function and performance requirements of the system 2. Establish system logic model 3. Write requirements specification, user handbook outline 4. Update project development plan | 1. Requirements specification 2. User handbook outline 3. Project development plan |
| System design | Outline design:   1. Establishing the overall structure of the system and dividing the functional modules:   Depositor module and Administrator module   1. Interfaces of each functional modules 2. Make an assembly test plan | 1. Outline design instructions 2. Assembly test plan 3. Assembly test plan |
| Detailed design:   1. Design the concrete realization algorithm of each module 2. Design detailed interfaces of the modules 3. Design UML diagrams to show attributes and operations of every class | 1. Detailed design instructions 2. UML diagrams |
| coding | 1. Write program source code 2. Detailed user manual | 1. Pseudocode or programming languages  2. User manual |
| testing | 1. Implement the integration test plan 2. Test the whole software system 3. Trail user manual 4. Writing developing summary report | 1. Integration test report 2. Confirmation test report 3. Summary of development work 4. Updated user manual |
| maintain | 1. Modifying to correcting mistakes and improving system function 2. Writing fault report and modifying report 3. Modify user manual | 1. Fault report 2. Modifying report |