

PROJECT PROPOSAL

A CLIENT/SERVER BANKING APPLICATION

ABSTRACT

Bangladesh is a developing country. The banking sector of the country is yet to get the fruit of full-fledged computerized banking environment. Where the manual banking system was rare in the developed country almost two decades ago, but still we are practicing such kind of system. Banking is a service oriented and world wide service. Although the banking services are widespread, but, generally people come to the Bank to deposit their money and then withdraw of the same. But what people want from the bankers regarding this simple service is that it should be fast, accurate and trustworthy. And definitely to provide a better service and solution to the customers, the Bank needs a computerized system, which will process customers` records, transactions etc. quickly and accurately.

In view of the fact, the objective of system project is to develop a simple banking application based on client/server technology in the networked environment, which will deal with daily internal transactions of a particular Branch of a Bank. And this proposed system will be able to do the following:

- Add new customer in the banking transaction record,
- Delete customer from the record,
- Change customers' details,
- Deposit money,
- Withdraw money,
- Check balance,
- Set overdraft limit
- Transfer money,
- Get statement.

OBJECTIVES

The following objectives have been set for the project:

- First of all I will get the opportunity to use my banking experience and skills to build a banking system with the help of my ongoing technologies learnt from the computing course.
- The project will help me in developing problem solving skills.
- I can explore a new technology (i.e. java) that was not taught in the course.
- Finally developing a good system will definitely demonstrate my technical abilities that can also be shown to potential employers or clients.

METHODS

The methods I will follow in completion of this project are as under:

- As the system is a banking application on client/server technology, so first of all I would like to review the banking, networking and java books for researching of the project.
- Secondly, as I am going to develop the system in context of Bangladeshi banking environment, therefore, I intend to read manual working procedures and advantages and disadvantages of the manual system of different commercial Banks in Bangladesh.
- I intend to hold discussion with some UK commercial Banks' IT personnel to review requirements and design.
- Regarding design of the application, I intend to use Unified Modeling Language (UML), which was taught in the Software Engineering module.
- I intend to develop the application as a desktop application using Java as the programming language.
- I also intend to review commercial banking applications like PCBank, Easy Bank, Pocket Bank etc.

RESOURCES

I would like to use the following resources for successfully completion of the project:

- Banking books.
- Java programming books.
- Computer networking books.
- Procedure manuals of different Bangladeshi Commercial Banks.
- Discussion with some UK commercial Banks` IT personnel.

SCHEDULE

Product Breakdown

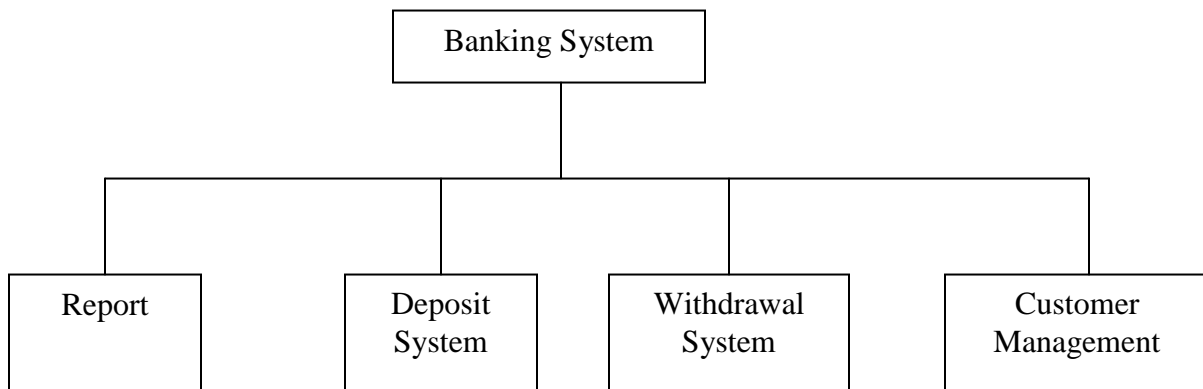
I have divided the project into the following products (component):

Deposit System: This is the core of banking functionality because the banking activity was established on the basis of keeping customers' money in the safe place. Under this system, every customer will be able to deposit their money electronically.

Withdrawal System: This will handle withdrawal of the deposited amount. Like deposit system, it will also facilitate the customers to withdraw money electronically.

Report: This will produce reports when the system needs to do so.

Customer Management: This will be responsible for maintaining the names of those customers who are account holders of the Bank system.



Work Breakdown

The following under noted work breakdown activities needs to be carried out for every products of the project:

- a. **Design & Specification:** Design & specification phase activity deals with modeling the component/product.
- b. **Coding:** Programming of the design for the component/product carries out in this phase.
- c. **Test Plans:** In this phase test plans need to be developed to test each product/component and then integration of all the products/components.
- d. **Testing:** Under the test plans, code needs to be tested at each component level and also when it is integrated with other components. Test results need to be evaluated at individual component level and at the level of integration also.

In addition to the above the following activities also need to be carried out for successful completion of the project:

- a. **Preliminary Investigation:** - The preliminary investigation phase deals with reviewing banking, networking, programming and other relevant literature. All the issues that needed for completion of the project will be adapted in this phase.
- b. **Database Design:** - The banking application needs a database to store information.
- c. **Final Report:** - All the works that have done for completion of this project is required to be documented for final report preparation and better understanding of the project.
- d.

Activity						
Code	Name	Deposit System	Withdrawal System	Report	Customer Management	Total
B1	Preliminary Investigation					30
B2	Design & Specification	5	3	1	1	10
B3	Database Design	5	4	3	3	15
B4	Coding	20	20	10	15	65
B5	Test plans	2	1	1	1	5
B6	Testing	2	1	1	1	5
B7	Final Report					15
	TOTAL					145

ACTIVITY DEPENDENCIES

Activity		Duration (Weeks)	Dependency
Code	Name		
B1	Preliminary Investigation	6	
B2	Design & Specification	2	
B3	Database Design	3	B2
B4	Coding	13	B2
B5	Test plans	1	B2
B6	Testing	1	B3, B4, B5
B7	Final Report	3	B1, B6

GANTT CHART

