

American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology (FST)

SOFTWARE REQUIREMENT ENGINEERING

PROJECT TITLE: Inventory management system

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In this project we will work on the design and development of a real life inventory management system, and for this we will use the Microsoft Visual Studio 2013 platform, and we will use Microsoft SQL Server 2012 for the database.

This project management software is mainly used in professional business, through which we can design all our work methods in a very organized way, and also share any project responsibility in stages, i.e. who will be involved with it to complete a project properly. And the issues that they will be responsible for can easily be expressed in a categorical form,

If there is a change in the requirements of our project, then it is very easy for everyone to understand and take the next step accordingly, in fact the communication method can be made very easy,

Problem domain:

In this project, inventory management system software is being developed through which the user can save and update and delete his product information from there. In addition, we are creating a Windows calculator through which all types of mathematical operations can be performed:

We have already completed the design and development of the calculator,

We have now completed the design of the login form of the inventory management system and now working on the design of the dashboard of this software.

Technology:

Our Inventory management system is a desktop application.

Our inventory management system software is built using Visual Studio 2013 and Microsoft SQL Server 2012 platforms.

We are building our calculator based on Microsoft Visual Studio 2013,

Through our inventory management system software, two types of users can login to it, one is admin and the other is normal user,

This software allows you to add different types of products, delete different types of products, and update product information,

And with this software they will be able to store the information to sell the products, and finally generate a sales voucher, etc. All the information but will be saved in our database,

Manager can add or remove employee from database and he or she can edit sales information.

Conceptual Foundation of the Project:

They have a huge market demand for this event management system, now in the digital age everyone wants to control all kinds of activities in a very smart way, now they are bringing different types of business from offline to digital, so they can easily see the current state of their business and they can track all information,

Also, it is now easy to predict and control which products are doing well in the market, which products are more interested in buying customers, and which products may increase demand in the future, so that the market will remain stable in the future.

Also, with so many products available today, it's very difficult to track the expiration date of a product, but if we use software here, that software will automatically give us information about which product has expired.

Moreover, we can easily access all the information related to the quantity of a product we have in stock, you'll be getting ideas on how much profit your business is making,

So it can be said that we have a lot of demand for this software in the market,

Social Impact Analysis:

Our management software will also play a very important role in our social life, as we have already seen that the extra selling price of different products at different times adversely affects the lives of ordinary people.

The price of onion has gone up several times even a few days ago and the common man cannot afford to buy it, meaning that no one will be able to stockpile any product using this software and give wrong information which will keep the market stable.

Development Plan

Planning and Requirement Analysis:

Before designing an inventory management system, it is necessary to collect the needs and requirements well, what kind of functionality the user wants to complete through this system, finally to consider it seriously, that is, to collect information from them, to analyze it well.

User requirements are very important. We have to analyze it well and design the system through priority.

Defining Requirements:

We need to sort out the most important requirements from the user requirements so that we don't miss any important requirements.

Designing the Product Architecture:

We will design the system based on the user's request and for this we will use Microsoft Visual Studio 2013 and Microsoft SQL Server 2012 to create this electric management system software.

The building or Developing the Product: For each inventory management system software, we first need to design a login system. Once the login is approved, it will be able to access the management system dashboard.

Testing the Product:

Once the design and development is complete we must do a good software testing so that there are no exceptions, we also need to make sure one is working properly,

Deployment in the Market and Maintenance:

This management software needs to be maintained periodically so that our system can run properly,

Marketing Plan

We are currently very popular social media for marketing, nowadays people spend a lot of time through this social media, so we can run this management system software campaign for our marketing through YouTube, Facebook's advertisement.

We don't have to spend extra for this management system software advertisement, because we don't need much money for advertising on Facebook and YouTube.

Cost and Profit Analysis

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Total costing including development cost=150000
Publishing cost=6000
Marketing cost=10,000
Then total earning =250000
Total costing=166000
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Total costing = Development cost+ Publishing cost + Marketing cost
= 150000+6000+10000
= 166000
```

```
Profit = total earning - total costing
= 250000-166000
=84000 TK
```





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