

*Undertaken By:*

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*Supervised By:*

# Malik Adnan

Lecturer

**DEPARTMENT OF COMPUTER SCIENCE**

**QURTUBA UNIVERSITY**

**DERA ISMAIL KHAN**

**(2019)**

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## Batch No: 2017-2019

1. Date of Submission**:**​ ​ **4/09/2019**
2. Name of Supervisor**:** ​ ​**Malik Adnan**
3. Major Area of Study: ​ **Master Of Computer Science**

**Inventory Management System**

**Introduction**  
Inventory is basically the total amount of goods and materials held in stock by a factory, store and other business. An inventory system is a process whereby a business keeps track of the goods and material it has available. Today’s competitive environment is forcing companies to optimize the procurement processes and inventory levels while at the same time ensure accuracy of controls and implementation of standard procedures for the flow of materials. However, in the absence of appropriate systems and information infrastructure, companies are finding it difficult to achieve smooth and efficient.

**Rationale**

Some of existing system is manual to keep transaction record of the inventory in the Department of computer science. People still prefer to follow the manual method to keep the record. We have found that employees first of all record all information in there ledger. They are using to keep the record of stock purchase, inventory, etc. Following this method is very time consuming and tedious. It has many drawbacks as there may be mistakes while recording large data and this may disrupt the important transaction.

So, in this project we are trying to make inventory management system which will help employees to keep record of inventories in systematic way and help them produce report about the inventory or stock currently available in their department in automatic way to help then decision making about the stock etc.

**Objectives**

Objective of the project is to develop inventory management system for department of computer science.

* Ensure efficient and timely identification of vital corporate assets.
* To provide Inventory System access to all necessary personnel.
* To provide a full range of reports that will satisfy informational requirements.
* To reduce labor of inventory management, centralize control and automation.
* Develop an automated system that will be able to record, store, retrieve and generate reports of inventory useful to management in decision-making.

**Methodology**

In our Project we will use an iterative model.

In the Iterative model, it starts with a simple implementation of a small set of the software requirements and iteratively enhance the evolving versions until the complete system is implemented and ready to be integrated into the whole system.

following are the steps in Iterative model we will use are

## 1. ​Planning & Requirements

In this stage we plan the list of initial release features and requirements, specification, documents required for those features

## 2. Analysis & Design

Once initial release features and requirements are planned, we design the infrastructure model, and separate working of those features into business logic, database models, user experience, establishing any technical requirements (languages, data layers, services, etc).

This is how we will we will design the working of features.

## 3. Implementation

In this stage we will start the actual implementation and code of feature from designs and layout mapped in last stage.

## 4. Testing

Once feature is implemented we will test the feature on local devices and also online devices using different platforms and using services like browser stack, Jest and other related CI Test to identify and locate any potential bugs or issues.

## 5. Evaluation

After going through deep testing, In this stage we will evaluate the progress of the platform and get feedback from our customers and clients and plan out our remaining feature and feature suggested by our customers and optimize our platform in the best way we can

**Software Requirements**

* Windows XP, Windows 7(ultimate, enterprise)
* Visual Studio2013
* SQL Server 2014

**Hardware Components**

* Processor – Dual Core
* Hard Disk – 250 GB
* Memory – 1GB RAM

# Work Schedule

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Work Schedule | **May** | **June** | **July** | **Aug** | **Sep** | **Oct** | **Nov** |
| Planning & Requirements | **×** |  |  |  |  |  |  |
| Analysis & Design | **×** | **×** |  |  |  |  |  |
| Implementation |  |  | **×** | **×** | **×** |  |  |
| Testing |  |  |  |  | **×** | **×** | **×** |