# Online Mobile Configuration System

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**Abstract**

This software project is develop to solve all the problems in the present manual system. We develop this standalone application named "Mobile Configuration System" to enhance efficiency, productivity and responsiveness and reduce the user and admin load of work. This system is expect to manage details of customers, mobile details, description about mobiles and its details. Typical users of this system are admin and users or customers. This system is supposed to be connect through network with every user (administrators, customer) through their user name and password. So user can see the details about Mobile details, admin can update the report about mobile details day by day. By implementing the computerized system connected to a database, the admin would be highly supported in their regular activities. It would be searching the past records of the user, generating the mobile brands. These facts are carrying out an efficient service with reducing of workload and paper base system. All the interface are user friendly, component based and attractive, software design technique used for the project is object oriented design as it is a more effective way of producing flexible software. The system will be implement using the technologies such as C#, ASP.NET and Microsoft SQL Server. The ultimate goal of this project is to provide a good, accurate and efficient Online Mobile Configuration System with new technologies.

**Keywords:** Computerize, Mobile, Online, System

## INTRODUCTION

Mobile Phone is an electronic device used for communication and messaging. Now days this has become very popular and essential need of the society. These are available in various make and brands in the market. Therefore, repairing and servicing of mobile phones are also required to be done. This has a prospective market.

The Mobile Configuration System is develop for desktop systems to facilitate mobile shop owners' management of customer details and inventory data, which will include mobile phones and accessories. It can be use efficiently for physically separated shops in different locations. This software will provide in a simple and easy to operate user interface, which can be manage by any user without having prior in-depth knowledge of the computer system. One can use this software to get a sales report. (Thomas Connolly and Carolyn E.Begg, 2004)Administrators can pull data, from any location from the server. This software is a complete package for small organizations, which will allow them to keep track of their sales and inventory, and provide a computerized billing system. There are various applications with more complex implementation and features available in the market, but they are generally very expensive. Therefore, creating an application with the basic requirement of low cost is essential for small organizations. This application will allow stores to manage customer details, keep inventory of

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all products and purchase information, in a very simple way, using a state-of the-art software application. It will automatically generate invoices and update inventory

***OBJECTIVE***

The purpose of Online Mobile Configuration System is to provide the vast area to View, Read, Buy, Upload, and Download and Share the digital materials (Mobiles, Brands of Mobiles, etc.) which have been categorize into many brands. Such as Samsung, Apple, LG, HTC, Nokia, Sony, Oppo and Microsoft etc.

The main objective of the project is to analyze the current Mobile Configuration system and suggest an online Mobile Configuration System, which will to provide the online access to the digital resources in a more convenient way, by using available resources, which could facilitate the Customers during the viewing, comparing, analyzing & purchasing processes.

**PROBLEM STATEMENT**

As all the process of Mobiles to manage the mobiles, brands and users are done by manually by using the paper work, which is very slow, consuming much effort as well as time and not enough satisfaction among users and customers. So This System going to reduce the workload of employees and its customers who may work or studding behalf of this company.

Existing System process is manual and it requires lot of hand & paper work to keep all the records. They use separate files for maintain all the records it will need large space to store the entire documents. Further shop managing activates also require many numbers of staffs. Some situation manual system has to enter the same data repeatedly, it will increase the workload of the customers, and paper documents can be damage or stolen. Also paper based works may prone to error and it may change by someone. So he/she is difficult to find information and generate report timely manner and efficiency way. There may dissatisfaction about mobiles and its brands and its details. It makes problems inside the organization among employees and others.

**Drawbacks of the current process are,** Fast report generation is not possible. Tracing mobiles is difficult, Information about issue/return of the mobiles is not properly maintain, No central database in the organization, so more information is not available in database, Quick searching and browsing features are not available, Lack of user feedbacks and comments, More strength and strain of manual labor needed. Repetition of the same procedures, Low security**,** Data redundancy**,** Difficult to handle**,** Difficult to update data**,** Record keeping is difficult**,** backup data can be hard to generated**,** prone to error**,** Expensive and Time consuming: The process of collecting data and writing data takes too much time and is expensive to conduct. For example, time and money is spent in printing data capture forms, in preparing registration stations together with human resources, and there after advertising the days set for registration process including sensitizing new users on the need for registration. As well as time spent on entering this data to the database, too much paper work. The process involves too much paper

work and paper storage, which is difficult as papers become bulky with the population size. Errors during data entry: Errors are part of all human beings; it is very unlikely for humans to be 100 percent efficient in data entry. Loss of registration forms and report sheets: Sometimes, registration forms get lost after being filled in with users' details. Sometimes, papers get lost after being processed and generated Short time provided to view the mobiles and register. This is a very big problem since not all people have free time during the given short period to check and update the user register; Storing and sharing the mobiles are very difficult: The processes of saving mobiles for the future usages are very difficult and there are no ways to share the books with others.

Keeping the information in hard-copy documents leads to the following problems:
Lack of space – It becomes a problem in itself to find space to keep the sheets of paper being generated because of the ongoing discussion. Filing poses a problem – Filing the documents categorically is a time consuming and Filtering and searching are not easy – It becomes hard to filter and search the particular documents and reports. Large number of workers: There must be some presiding; clerical staffs. The separate files are requiring more space to keep. Handwritten records, documents messy and hard to understand, and organizing mobiles and categorized them for users take lot of time.

Further, the long process and physical activities of current services are stacking the peoples' valuable time and days. Therefore, after conducting the feasibility study I decided to make the Mobile Configuration System as an online solution to them.

***Functions of the proposed System***

Proposed system is a web-based Mobile Configuration System. Through our website user can browse, read, search mobiles, update information, edit information, and buy the mobiles in quick time. The proposed system has the following advantages.

- User friendly interface
- Fast access to database
- Less error
- More Storage Capacity
- Search facility
- Look and Feel Environment
- Attractive and worldwide collection of mobiles.
- Viewing mobiles are totally free without any error
- Quick transaction
- Especially customers can compare the mobiles with brands and its prices etc…

All the manual difficulties in managing the Mobile shop has rectified by implementing computerization. The functions of the proposed system. Easy Access to the mobiles & digital resources, which are categorize separately. Make trust worthy in log in, registering and payment processes. This system is a lot easier to independently moderate the downloading option. Efficient and

accurate administration of managing activities and collecting information. Enhances information integrity, reduces transcription errors, and reduces duplication of information entries. Effective and improved search facilities to provide easier way. Separately categorized features help to browse, read and download the books. Reduce the workload of the manual system by providing the user-friendly environment, which make data entering and retrieving process very easier. Provides more security, if the user will enter the wrong user name or password the system will not allowed login and downloading processes. Easy to handle the record about the mobile details and user's details.

***SYSTEM DEVELOPMENT METHODS AND METHODOLOGY***

A methodology is a set of general principal that guide to the choice of the particular method suited to a specific project. Underpinning this is an assumption that the projects move from one task to another.

- The use of methodology helps to produce a better quality product.
- Help to ensure that the user requirements are met completely.

I have chosen waterfall model as a technique or method to define the development of the Online Mobile Configuration System. Because it promotes ways of organizing and managing the different activities involved in the system.

**Waterfall Model**

The software development process that used to develop Online Mobile Configuration System is the Waterfall model. The Waterfall model is a linear and sequential software development process, meaning that the different phases are done one after the other in a sequential manner as shown below.

The waterfall model is a system development model, which was developed for software development that is use to create software. It is called as Waterfall model because the model develops systematically from one phase to other in a downward fashion, like a waterfall. Information should be thoroughly analyzed to get a clear understanding of them. Therefore, I analyzed the requirements gathered from relevant users, and then I implement them into different phases.

Subdividing the process of system development produces is known as a life cycle model. As all living things have the development stages from its conception, information systems also have the development stages. Various project life cycles can be applied to information systems development. I have selected the waterfall model as a life cycle model for the development of Online Mobile Configuration System.( Hawry ewicz, 2003)

The simplest system development life cycle model is the waterfall model, which states that the phases are organize in a linear order. A project begins with requirement analysis. The design starts after the requirements analysis is done. In addition, coding begins after the design is done. Once the programming is completed, the code is integrated and testing is done. On successful completion of

testing, the system is installed. After this the regular operation and maintenance of the system takes place.

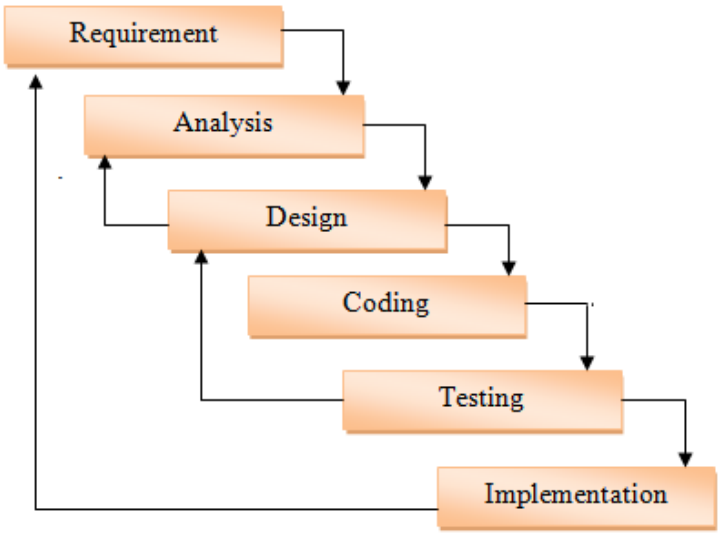


Figure1: Waterfall Model for Development Process

**Reasons for Choosing the Waterfall Model**

- Easy to explain to the user
- Stages and activities are well defined
- Helps to plan and schedule the project
- Verification at each stage ensures early detection of errors / misunderstanding
- It allows compartmentalizing the life cycle into various phases, which allows planning the resources and effort required through the development process.
- It enforces testing in every stage in the form of reviews and unit testing. Can conduct design reviews, code reviews, unit testing, and integration testing during the stages of the life cycle.
- It allows setting expectations for deliverables after each phase.

## CONCLUSION

The proposed system is called as "Online Mobile Configuration System". This software project solves all the problems discussed above in the present system. The main objective of developing this project is to provide the online access to the digital resources (mobiles and mobile details etc.) in Online Mobile Configuration System. Then to enabling, the Digital platform to Collections & Content, Access & Discovery, Research, Teaching & Learning, and Professional Development in the development of the E-business concept. Online Mobile Configuration System is a Customize and user-friendly software for all activities. It has been design to automate, manage and handle the digitalized

documents such as E-books, E-papers, Digital resources (Audio, Video, Imagery visuals) which are available on this virtual library platform.( Ravichandra Rao, 1992)

This Online Mobile Configuration System is to provide the vast area to View, Read, Buy, Upload, and Download and Share the digital materials, which have been categorize into many categories with categorized searching facility. Such as brands like apple, oppo, sony and Samsung.

Therefore, the proposed system is offering a maximum of stability, cost-effectiveness and usability to E-Tech Campus and all library users. It will provide latest and innovative platform to learn, study and research related activities by creating virtual environment.

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