

SRS Software Requirement and Specification Online Auto Parts

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To seek knowledge is the duty of every Muslim man and woman

Online Auto Spare Parts Store and Consultation

Software Requirements Specification

Version 1.0



Group Id: bc123456789

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Revision History

Date (dd/mm/yyyy)	Version	Description	Author
13-12-2021	1.0	The purpose of this project is to develop a website to facilitate common citizen. It will be like an e-store where users can buy their required products online and can get consultation. Users can get their products and suggestions well on time. It's a great opportunity for the sellers to increase their products sale. The website should have different categories of auto spare parts products like car accessories, wheels, car care, batteries, equipment etc. under each category all related option (varieties of tyres, names of car accessories and batteries with brands, types and names of car's equipment) should be available. This website will also provide facility for online consultation related to auto spare parts. For this purpose expert can get registration. This website will also provide facility for online consultation related to auto spare parts. Users can also hire a consultant for physical car inspection.	BC123456789

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SRS Document

1. Scope of Project:-

Now a day, World Wide Web (WWW) is one of the major sources of information and it is expanding day by day. With the increasing popularity of the Internet around the world, e-commerce has evolved. E-commerce mainly refers to online work on the Internet. However, it is very challenging for person to find the relevant software in such huge collection of data therefore is a need of developing this kind of web application which help its users to find specific auto spare parts store and consultation. The aim of this project is to develop a website named as “Online Auto Spare Parts Store and Consultation” that will contain different categories of auto spare parts products. This includes sales, advertisements and contacts with buyers and online users.

The purpose of this project is to develop a website to facilitate common citizen. It would be like an e-store where users can buy their required products online and also can get consultation online. It will be a great opportunity for the sellers to increase their products sale. The website should have different categories of auto spare parts products like car accessories, wheels, car care, batteries, equipment etc. under each category all related option (varieties of tyres, names of car accessories and batteries with brands, types and names of car's equipment) should be available. A user should be able to search and view products by applying different filters but only registered user can buy products, after selecting product he/she will be able to place an online order. At checkout time, more information will be needed to complete the order. Usually, the customer will be asked to fill the basic details or select a billing address, a shipping address, and payment option such as debit/credit card information or cash on delivery.

This website will also provide facility for online consultation related to auto spare parts. For this purpose expert can get registration. An expert can recommend any auto spare parts to the user. Users can also hire a consultant for physical car inspection.

2. Functional and non Functional Requirements:

2.1.Functional Requirements:-

User panel:

1. Any user can search / view products by applying filters (name, price, brand name etc).
2. He/she should get registered to place an order.
3. He/she should be able to select and add product to cart.
4. He/she should be able to select payment method.
5. The user will have to fill a form by providing his /her name, contact number, postal address, city, delivery and payment method (cash on delivery/online by using credit/debit card) at checkout.
6. He/she should be able to send messages to consultants and can view consultant's answers
7. He/she should also be able to view other's messages and consultant's answers.
8. He/she should be able to add review and feedback about product and website.
9. The user can login and logout.

Consultant Panel:

1. Consultant should get registration for consultation.
2. Consultant can view user's messages and can answer messages.

Admin panel:

1. Admin can view orders.
2. Admin can view reviews or feedbacks.
3. Admin can block any user.
4. Admin can add/remove categories or edit existing categories.
5. Admin can add view and delete different products.
6. Admin will be able to generate a report such as sale and buy reports, profit and loss report on a monthly.
7. Admin can add consultant and can view consultant information.
8. Admin can add payment method.
9. Admin have access to monitor everything on the website.

2.2.Non-Functional Requirements:-

- ☐ **Operating System:**

Software will be run on operating systems like Windows 7 and above.

- ☐ **Access:**

Software will accessible over the internet.

- ☐ **Usability:**

Usability of software will be easy so that new users can use it without any difficulty.

- ☐ **Reliability:**

The System will support 7 X 24 operations.

- ☐ **Interface:**

Interface should be user friendly and easy to understand and navigate. It should provide simple environment.

- ☐ **Maintenance:**

The software is developed in such a way that it can be easily understood and maintained. It should be flexible enough to stand with change and exceptions. So, that classification of errors and maintenance of mechanism become easy.

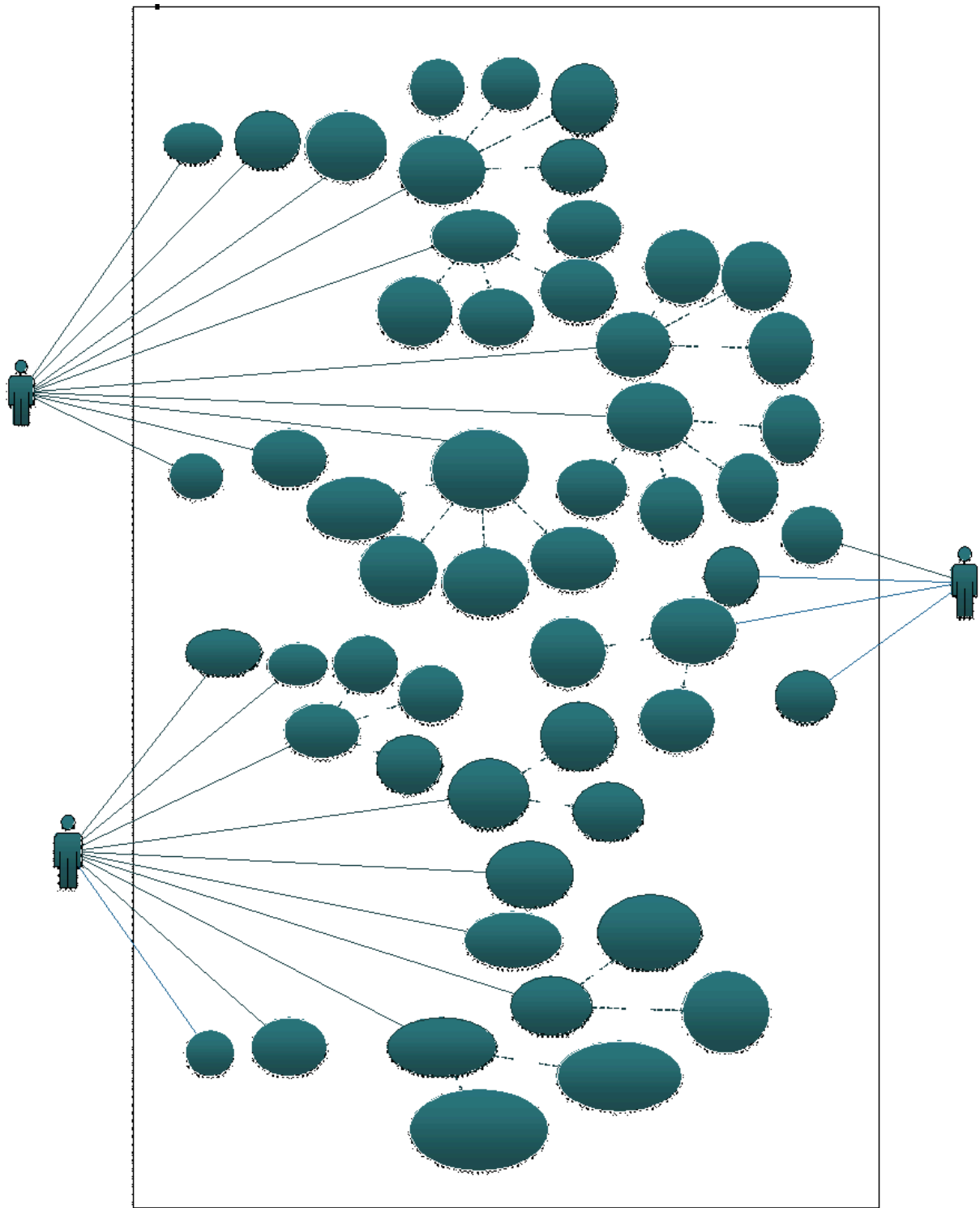
- ☐ **Flexibility:**

Software would be flexible so that it can easily accept all changes at low cost, time and experience.

- ☐ **Security:**

Software will be secure.

3. Use Case Diagram(s):



4. Usage Scenarios:

Use Case Title	Login
Use Case Id	UC-1
Actions	1. Admin click on login button/link which leads to login page 2. Admin gives username and password. 3. System permits login, upon validation of credentials.
Description	This use case enables admin to login for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now login into the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	View Order
Use Case Id	UC-2
Actions	1. Admin click on view order button which leads to view order page. 2. System permits view order upon validation of credentials.
Description	This use case enables admin to view order for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can view orders.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to view order from the system. If not the system state is unchanged.

Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	View Feedback
Use Case Id	UC-3
Actions	- Admin click on view feedback button which leads to view feedback page. - System permits view feedback upon validation of credentials.
Description	This use case enables admin to view feedback for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can view feedback.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to view feedback from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Manage User
Use Case Id	UC-4
Actions	- Admin click on manage user button which leads to manage user page. - System permits view user upon validation of credentials. - Admin will view, add, remove and update user.
Description	This use case enables admin to manage user for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can manage user.
Pre Conditions	Server and database connections should be available. Admin must be login.

Post Condition	If use case is successful, Admin is now able to manage user from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Manage Category
Use Case Id	UC-5
Actions	- Admin click on manage category button which leads to manage category page. - System permits manage category upon validation of credentials. - Admin will view, add, remove and update category.
Description	This use case enables admin to manage category for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can manage category.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to manage category from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Manage Product
Use Case Id	UC-6
Actions	- Admin click on manage product button which leads to manage product page. - System permits manage product upon validation of credentials. - Admin will view, add and remove product.
Description	This use case enables admin to manage product for performing their actions according to their role.

Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can manage product.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to manage product from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Generate Report
Use Case Id	UC-7
Actions	- Admin click on generate report button which leads to generate page. - System permits generate report upon validation of credentials.
Description	This use case enables admin to generate report for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can generate report.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to generate report from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Manage Consultant
Use Case Id	UC-8
Actions	- Admin click on manage consultant button which leads to manage consultant page. - System permits manage consultant upon validation of credentials. - Admin will add, view, remove and update consultant.
Description	This use case enables admin to manage consultant for performing their actions according to their role.

Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can manage consultant.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to manage consultant from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception. If no record is entered, system may show NULL exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Add Payment
Use Case Id	UC-
Actions	1. Admin click on add payment method button which leads to add payment method page. 2. System permits add payment method upon validation of credentials.
Description	This use case enables admin to add payment method for performing their actions according to their role.
Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this admin can add payment method.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to add payment method from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception. If no record is entered, system may show NULL exception.
Modification History	1.0
Author	BC123456789
Use Case Title	Logout
Use Case Id	UC-10
Actions	1. Admin click on logout button which leads logout page. 2. System permits logout after confirmation.
Description	This use case enables admin to logout from the site.

Alternative Paths	If admin is not login. Admin clicks on login button. Complete login actions. After this process admin can logout because it is compulsory for admin to login.
Pre Conditions	Server and database connections should be available. Admin must be login.
Post Condition	If use case is successful, Admin is now able to logout from the system. If not the system state is unchanged.
Exceptions	System may show admin authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Register
Use Case Id	UC-11
Actions	1. Consultant fills form. 2. Consultant submits form. 3. System validates inputs. 4. System stored data to the database.
Description	This use case allows registration process of consultant on site.
Alternative Paths	If consultant does not fill mandatory fields. System highlights field and display message for filling. Use case loops to itself.
Pre Conditions	Server and database connections should be available.
Post Condition	Consultant is registered to the system. If use case is unsuccessful, the system state is unchanged.
Exceptions	If consultant already exists in database, system may displays message “consultant is already registered”.
Modification History	1.0
Author	BC123456789

Use Case Title	Login
Use Case Id	UC-12
Actions	1. Consultant clicks on login button/link which leads to login page 2. Consultant gives username and password.

	3. System permits login, upon validation of credentials.
Description	This use case enables consultant to login for performing their actions according to their role.
Alternative Paths	If consultant is not registered. Consultant clicks register button. Complete register actions and then clicks login.
Pre Conditions	Server and database connections should be available. Consultant must be registered.
Post Condition	If use case is successful, Consultant is now logged into the system. If not the system state is unchanged.
Exceptions	System may show consultant authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	Manage Message
Use Case Id	UC-13
Actions	1. Consultant click on manage message button which leads to manage message page. 2. System permits mange message upon validation of credentials. 3. Consultant can view and answer message.
Description	This use case enables consultant to manage message for performing their actions according to their role.
Alternative Paths	If consultant is not registered. Consultant clicks register button. Complete register actions and then clicks login. After this consultant can manage message.
Pre Conditions	Server and database connections should be available. Consultant must be login.
Post Condition	If use case is successful, Consultant is now able to manage message from the system. If not the system state is unchanged.
Exceptions	System may show consultant authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Logout
Use Case Id	UC-14
Actions	1. Consultant click on logout button which leads to logout page. 2. System permits logout after confirmation.
Description	This use case enables consultant to logout from the site.
Alternative Paths	If consultant is not login. Consultant clicks on login button. Complete login actions. After this process consultant can logout.
Pre Conditions	Server and database connections should be available. Consultant must be login.
Post Condition	If use case is successful, Consultant is now able to logout from the system. If not the system state is unchanged.
Exceptions	System may show consultant authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Signup
Use Case Id	UC-15
Actions	1. User fills form. 2. User submits form. 3. System validates inputs. 4. System stored data to the database.
Description	This use case allows signup process of user on site.
Alternative Paths	If user does not fill mandatory fields. System highlights field and display message for filling. Use case loops to itself.
Pre Conditions	Server and database connections should be available.
Post Condition	User is signed up to the system. If use case is unsuccessful, the system state is unchanged.
Exceptions	If user already exists in database, system may displays message “user is already registered”.
Modification History	1.0
Author	BC123456789

Use Case Title	Login
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Use Case Id	UC-16
Actions	1. User clicks on login button/link which leads to login page 2. User gives username and password. 3. System permits login, upon validation of credentials.
Description	This use case enables user to login for performing their actions according to their role.
Alternative Paths	If user is not registered. Consultant clicks register button. Complete register actions and then clicks login.
Pre Conditions	Server and database connections should be available. User must be registered.
Post Condition	If use case is successful, User is now logged into the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	Search Product
Use Case Id	UC-17
Actions	1. User click on search product button which leads to search product page. 2. System permits search product upon validation of credentials.
Description	This use case enables user to search product from the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can search product.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to search product from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	Manage Product
Use Case Id	UC-18
Actions	1. User click on manage product button which leads to manage product page. 2. System permits manage product upon validation of credentials. 3. User can view and add product.
Description	This use case enables user to manage product from the site..
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can manage product.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to manage product from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Payment Method
Use Case Id	UC-19
Actions	1. User click on add payment method button which leads to add payment method page. 2. System permits add payment method upon validation of credentials.
Description	This use case enables user to add payment method of the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can add payment method.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to add payment method from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	Personal Details
Use Case Id	UC-20
Actions	1. User click on add personal details button which leads to add personal details page. 2. System permits add personal details upon validation of credentials.
Description	This use case enables user to add personal details of the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can add personal details.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to add personal details from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	Manage Message
Use Case Id	UC-21
Actions	1. User click on manage message button which leads to manage message page. 2. System permits manage message upon validation of credentials. 3. User can send and view consultant replies.
Description	This use case enables user to manage message of the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can manage message.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to manage message from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception. If no record is entered, system may show NULL exception

Modification History	1.0
Author	BC123456789

Use Case Title	Manage Others Message
Use Case Id	UC-22
Actions	1. User click on mange others message button which leads to manage others message page. 2. System permits manage others message upon validation of credentials. 3. User can view others and consultant messages.
Description	This use case enables user to manage others message of the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can manage others message.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to manage others message from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception.
Modification History	1.0
Author	BC123456789

Use Case Title	Add Feedback
Use Case Id	UC-23
Actions	1. User click on add feedback button which leads to add feedback page. 2. System permits add feedback upon validation of credentials.
Description	This use case enables user to add feedback method of the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this user can add feedback.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to add feedback from the system. If not the system state is unchanged.

Exceptions	System may show user authentication exception. If no record is entered, system may show NULL exception
Modification History	1.0
Author	BC123456789

Use Case Title	Logout
Use Case Id	UC-24
Actions	1. User clicks on logout button which leads to logout page. 2. System permits logout after confirmation.
Description	This use case enables user to logout from the site.
Alternative Paths	If user is not login. User clicks on login button. Complete login actions. After this process user can logout.
Pre Conditions	Server and database connections should be available. User must be login.
Post Condition	If use case is successful, User is now able to logout from the system. If not the system state is unchanged.
Exceptions	System may show user authentication exception.
Modification History	1.0
Author	BC123456789

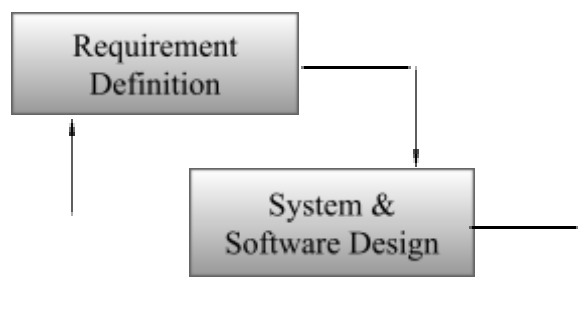
5. Adopted Methodology:-

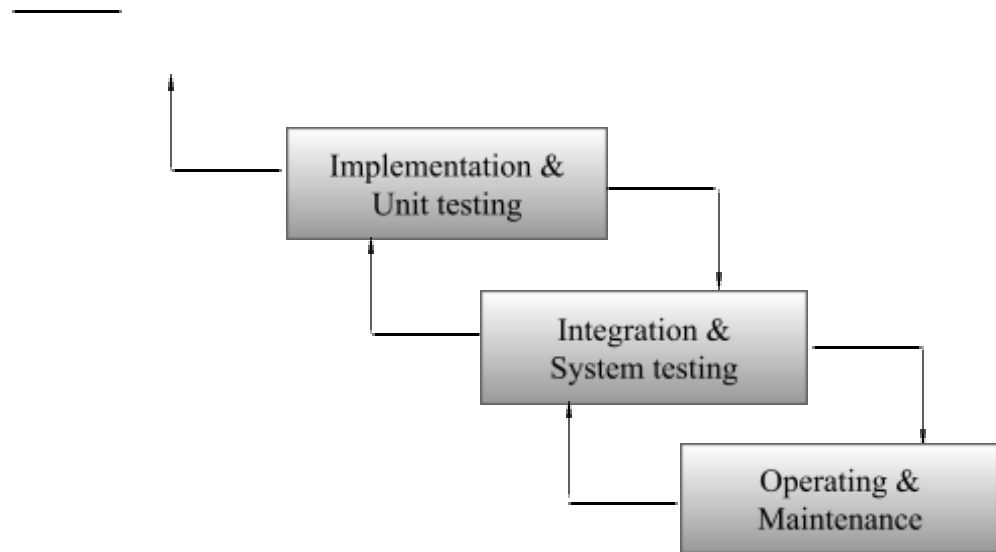
“Methodology is a frame work that is used to structure, plan and control the process of developing an information system”.

Vu process model is a combination of the water fall and spiral model.

5.1 Waterfall Model:-

Waterfall model is fast process model to be introduced. This model is also known as linear sequential or classic life cycle model.





The Waterfall Model is a documentation-driven model. It therefore generates complete and comprehensive documentation and hence makes the maintenance task much easier.

The five stages above are as follows:

1. Requirement Analysis and Definition: What - The systems services, constraints and goals are established by consultation with system users. They are then defined in detail and serve as a system specification.
2. System and Software Design: How – The system design process partitions the requirements to either hardware or software systems. It establishes an overall system architecture. Software design involves fundamental system abstractions and their relationships.
3. Implementation and Unit Testing: - How – During this stage the software design is realized as a set of programs or program units. Unit testing involves verifying that each unit meets its specifications.
4. Integration and system testing: The individual program unit or programs are integrated and tested as a complete system to ensure that the software requirements have been met. After testing, the software system is delivered to the customer.
5. Operation and Maintenance: Normally this is the longest phase of the software life cycle. The system is installed and put into practical use. Maintenance involves correcting errors which were not discovered in earlier stages of the life-cycle, improving the implementation of system units and enhancing the system's services as new requirements are discovered.

5.2 VU Process Model:-

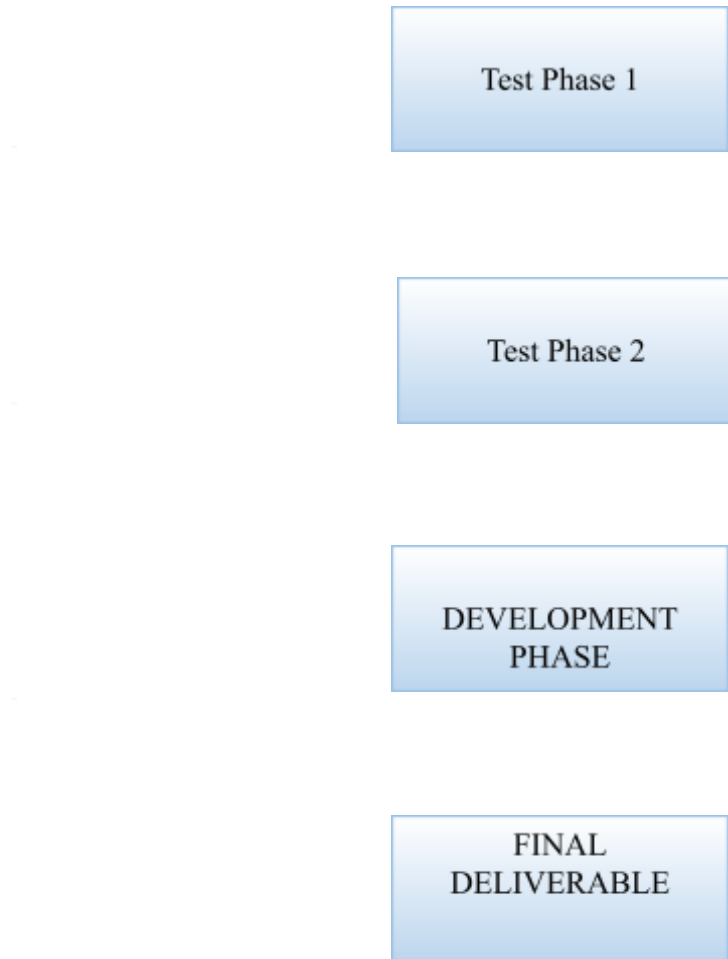
It is the combination of waterfall model and spiral model. It is also called Hybrid approach of system development. It has five phases which are gathering and analyzing requirements, planning, analysis and design, development and implementation. In requirement phase goals services and constraints are established after discussion with user. It also maximizes the quality of system and minimizes any risks and errors.



The diagram consists of two light blue rectangular boxes with thin black borders, arranged vertically. The top box contains the text 'SRS' and the bottom box contains the text 'Design Document'.

SRS

Design Document



5.3 Reason for choosing vu process Model:

I choose VU process model for my project. Reason for adopting methodology is as under

1. The main idea to choose is to get the benefits of both these models.
2. It is sequential model with backward repetition.
3. We want to achieve the linear nature of waterfall and iterative plus risk reduction nature of spiral model.
4. In vu process model we will be work in phases to complete the given project.
5. All the activities are performed in a sequence in VU Process Model.

6. Work Plan (Use MS Project to create Schedule/Work Plan)

Project Plan

