

Skip The Agent

Software Requirements Specification

Version 1.0



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Revision History

Date (dd/mm/yyyy)	Version	Description	Author
26/12/2021	1	<p>The purpose for this report is to give a point-by-point portrayal of the prerequisites and to examine the necessities for the undertaking of "Designing and Development of SkipTheAgent"</p> <p>This phase drills down into details on the requirements and documents them thoroughly. It uses several different methods and sources to find and collect data.</p>	Bc180403635

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Scope of Project

In the current era, everyone loves to be updated by time in any terms with society. Vehicle is the building block of our today's life, and we want to have the latest car as per our price. Thus, this platform helps the client thru every step of the car buying and selling process. From searching out what kind of car they would like to buy or sell, to finding the car, and helping them finance the new or used car.

As the name suggests, this platform make the buyer or seller to skip the agent and contact each other directly without any medium. They don't have to go to agent to buy or sell cars, else they will interact with this super flexible platform where they will find every detail or their desired cars. Both buyer and seller can have communicated with each other through this platform with built in chat system.

Functional and non-Functional Requirements

➤ Functional Requirements:

1. User (Buyer/Seller):

- a. **Registration and sign in:** User will register him/herself in this platform in order to buy or sell their cars after verifying their email through auto mail verification service.
- b. **Sell Car:** Seller must register themselves in order to post an ad for car selling. After signing in, seller will be able to post ad of their used cars by filling an actual car parts form where they must enter details of their car.

- c. **Listing:** Seller will be able to view the status (active, pending, removed) of their active ads.
- d. **Alerts:** User can create alert for specific cars and user will be alerted thru email if this cars registers in this system.
- e. **Chat System:** This platform will provide chat system for user, where both buyer and seller can chat in order to start their order or buying/purchasing car. (Message will be end-to-end private by encryption and cannot be by admin as well, thus privacy is important factor).

2. Admin

- a. **Manage Ads:** Admin can view ads of all cars which is available for selling and can remove or ban the ad.
- b. **Manage Users:** Admin can view or block users.

3. Visitor

- a. **Ads Listing:** All the active ads of cars will be visible for visitor, where they will be applying searches for their desired cars. They don't have to get registered in order to view ad. Buyer (visitor) can view phone number of seller and continue their order.

➤ Non-Functional Requirements

1. Responsive / Performance

- a. **Responsive:** It will be fully Responsive Web App that will provide best experience on every browser on every device.
- b. **Performance:** App will work faster even on slow internet by using fastest algorithm.

2. User Friendly

- a. **Interactive:** App will be fully interactive and user friendly. User will interact through fully flexible and responsive GUI.
- b. **Easy to understand:** It will provide a user interface that can be used by anyone, even if they have no deep knowledge of it. This website will

have elements that are easy to access, understand, and use to facilitate those actions.

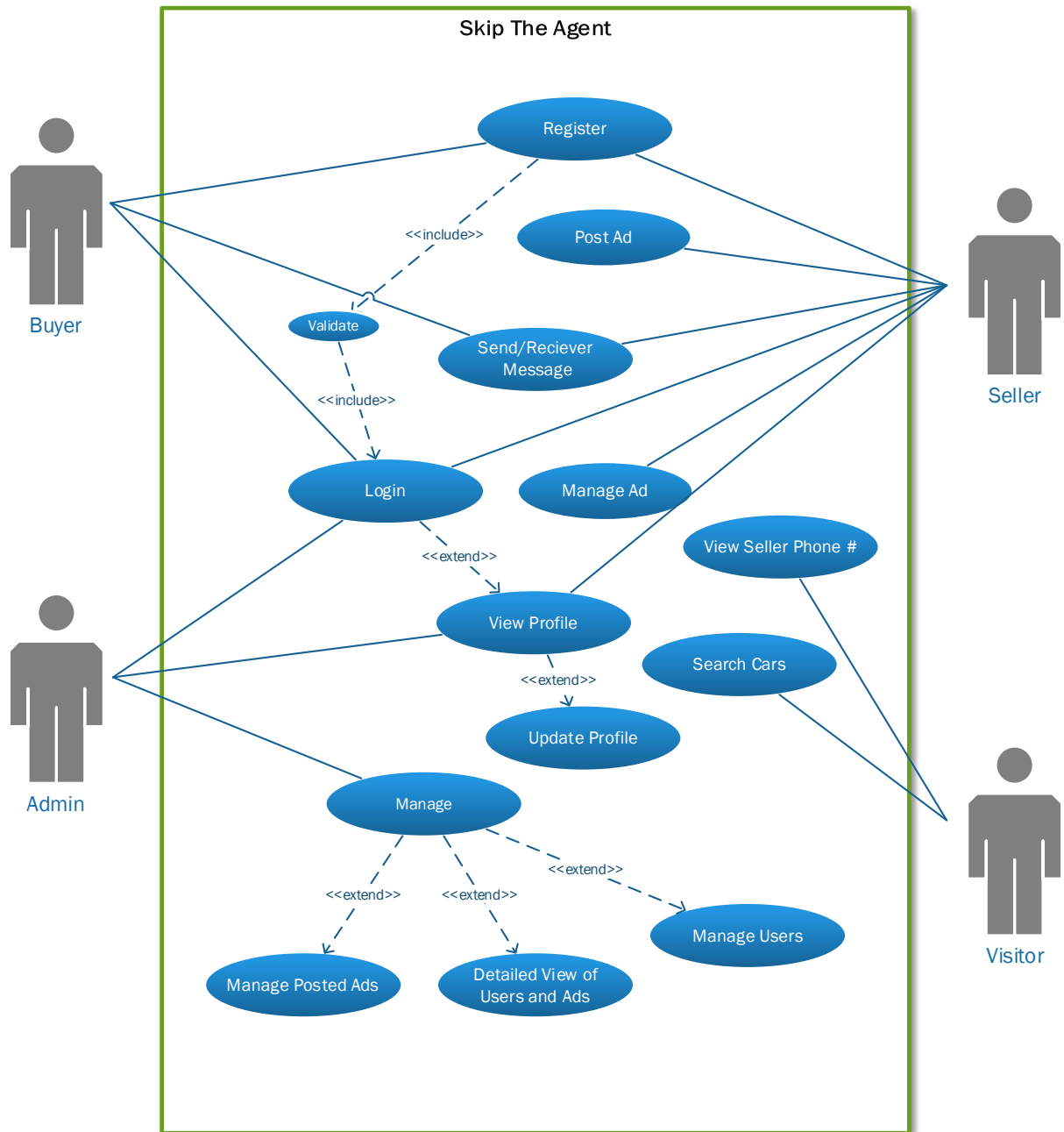
3. **Efficiency**

- a. The online website should ensure that it is reliable. System should be able to complete its on-going operations in spite of any error or problem within defined response time.
- b. The ability of our system to behave consistently in a user-acceptable manner when operating within the environment for which the system was intended. For example, our system will be able to update process must roll back all related updates in the database when any update fails.

4. **Maintainability**

- a. This Web application will be very simple and easily maintainable by adding any further features in the future allow making change easier and more affordable, avoiding change that is not necessary and should allow performing a successful repair action within a given time. Also, configuration and content management will be easy.

Use Case Diagram



Usage Scenarios

Use Case Title	Search Used Cars
Use Case Id	1
Actions	Visitor will see used car details on website using different filters
Descriptions	This Use Case will allow the visitor to search for the cars that has been added into the website by seller. Visitor can search the car using different filters such as by their name, brand, engines, specifications and can view car details like price, name brand engine types and much more.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • There must be at least One Faculty Member's info
Post-conditions	<ul style="list-style-type: none"> • Visitor has searched the cars successfully
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Registration
Use Case Id	2
Actions	Register to this website database
Descriptions	This Use Case will allow the users to register themselves in order to post an ad for selling or to chat with other users. User will have to fill a form containing all the necessary information which is needed to complete the registration process.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • User has a Valid Email Address.
Post-conditions	<ul style="list-style-type: none"> • The Registration was successful.
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Login
Use Case Id	3

Actions	Login to website
Descriptions	This Use Case will allow member to login into the site / system. They will have to enter his / her Email and Password to get login into the system
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none">• System should be connected with the database• Application should be running properly.• User should have a Valid Username and Password.• User must have registered account in the application before login• User can sign in after the approval of admin
Post-conditions	<ul style="list-style-type: none">• User logged into the system successfully.• User re-directed to his / her profile, based on his / her role in the system.
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	View Profile
Use Case Id	4
Actions	Members can view their Profile
Descriptions	This Use Case will allow members to see their profile after they logged in to the system. User will have to click the Profile button on the top of the website in their dashboard
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • Member must have logged in with their credentials
Post-conditions	<ul style="list-style-type: none"> • Members have to click the profile element
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Update Profile
Use Case Id	5
Actions	Members will edit the profile form showing in profile section

Descriptions	This Use Case will allow Member to edit their profile including their password. The Member will have to save the profile after editing. They must have to enter their previous password in order to change it.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • Member must have logged in with their credentials
Post-conditions	<ul style="list-style-type: none"> • Profile Updated Successfully Popup will show up.
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Recover Password
Use Case Id	5
Actions	User can recover the password if they forgot
Descriptions	This Use Case will allow the users to reset their password if they forgot it by using their registered email

Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • Member must have valid email
Post-conditions	<ul style="list-style-type: none"> • Members has recovered password successfully.
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Post Ad
Use Case Id	6
Actions	Member will post an ad(s) through the form that will show up in their profile
Descriptions	After the login to the system, user will be able to post an ad to sell their car after filling the information that will be shown up in the website that will be viewed by visitor/student. When faculty member will log in to the system. They will redirect to their dashboard where they can add.
Alternative Paths	None

Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • Member must have logged in with their credentials
Post-conditions	<ul style="list-style-type: none"> • Ad posted successfully
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	View / Manage their ad
Use Case Id	7
Actions	User can see posted ads and can update as per they desire.
Descriptions	This Use Case will allow user to view their posted ad's and which they can manage.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • Member must have logged in with their credentials

	<ul style="list-style-type: none"> They must have to add their details first in order to update
Post-conditions	<ul style="list-style-type: none"> Ad updated successfully
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Save Car ads
Use Case Id	8
Actions	User can save car ads after registering by clicking save button
Descriptions	This Use Case will allow the user to save car ads which they can find in “Saved Ads” sections in their dashboard.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> System should be connected with the database. Application should be running properly. There must be at least One Faculty Member’s info
Post-conditions	<ul style="list-style-type: none"> Ad Saved Successfully

Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Create Alert
Use Case Id	9
Actions	User can create alert for their desire cars
Descriptions	This Use Case will allow the user to create alert for their specific cars, they will get notified as soon the car is available for selling.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none"> • System should be connected with the database. • Application should be running properly. • There must be at least One Faculty Member's info
Post-conditions	<ul style="list-style-type: none"> • Alert created successfully
Author	F2102448D2 (BC180403635)
Exceptions	None

Use Case Title	Manage Users / Ads (Admin)
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Use Case Id	10
Actions	Admin can view, ads and users that are registered with system
Descriptions	This Use Case will allow admin to view the information as well as admin can manage them accordingly.
Alternative Paths	None
Pre-conditions	<ul style="list-style-type: none">• System should be connected with the database.• Application should be running properly.• Admin must have logged in with their credentials• There must be at least one faculty member's info
Post-conditions	<ul style="list-style-type: none">• Details will be update accordingly
Author	F2102448D2 (BC180403635)
Exceptions	None

Adopted Methodology

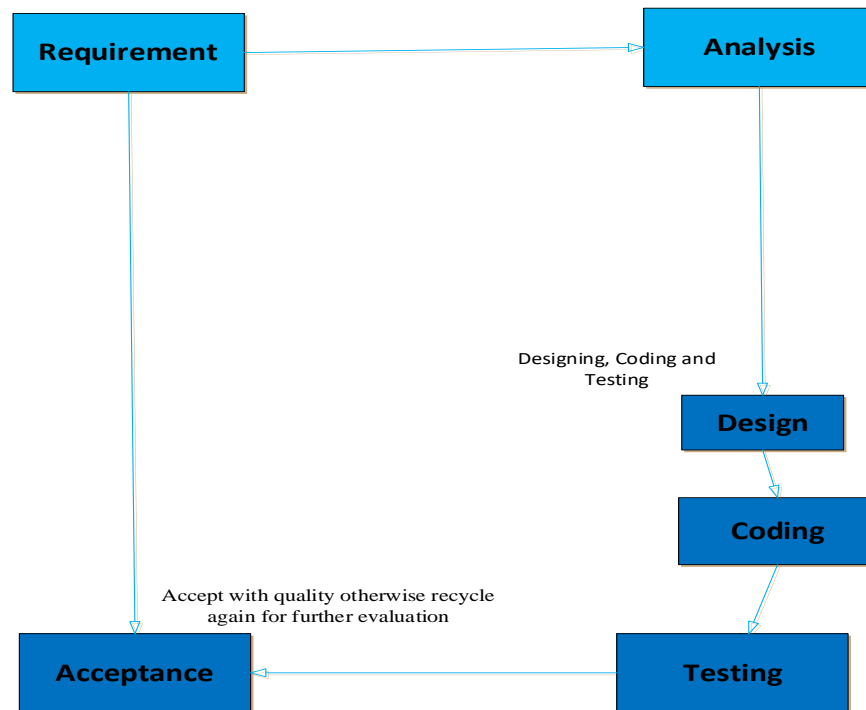
According to the requirement, for making our software we adopted the methodology “**VU process model**”. The description of which is given below:

➤ VU Process Model:

It is the combination of waterfall methodology and spiral methodology. It is also known as hybrid approach of system development. It has five phases and which are Gathering and Analyzing requirement, Planning, Analysis and Design, Development and Final report.

Essentially, Water Fall Model is a framework for software development in which development proceeds sequentially through a series of phases, starting with system requirements analysis and leading up to product release and maintenance, whereas the key characteristics of spiral model is risk management at regular stages in the entire software development cycle.

➤ Diagram



VU Process Model Diagram

➤ **Why are we using VU Process Model Methodology?**

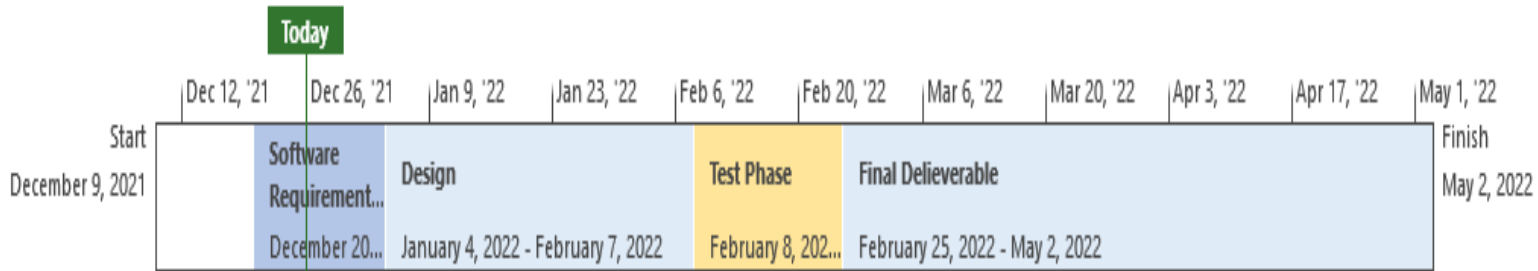
Following are the basic reasons for choosing VU Process Model for our project:

1. Our project is divided into different phases which we have to complete in sequence and submit it to our supervisor. In the requirement phase the system goals, services and constraints are established after discussion with user.
2. The planning phase is synchronized effort to find all the potential roadblocks and draft a robust plan to tackle each. This phase usually involves a lot of brainstorming within software development team as well as with respective client. It maximizes the quality of system and minimizes any risks and errors.
3. If Supervisor suggests improvement, then we will make improvement in planning phase. This process will be adopted due to the spiral nature of VU Process model. When the phase is well-improved and well worked-out, and also accepted by our supervisor then we will proceed to next phase. This will be done due to the waterfall nature of the VU Process model.

Hence both models are suppressed in single form and that will be our VU process model. It will provide error free result as each step is done in a sequence.

Work Plan

➤ Timeline



➤ GANTT Chart

