

Software Requirements Specification

For Consultation Project Management

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SRS Document

1. Introduction

1.1 Purpose

The proposed web based application is required for all Online Freelance marketplace.

A marketplace is an online platform where businesses can find and hire individual contractors for their projects.

1.2 Scope of Project

Consultation Management System is a web portal on which engineers and clients interact with each other.

In this platform a client usually posts a specific project and many consultants bid on that project; the client after reviewing the bids and awards the project to a specific engineer with the most efficient bid.

In this way the client gets his job done and the consultant earns money.

This project aims to develop a marketplace where not only an employer could post a project for bidding but a consultant (engineers) could also offer his/her services for buyers.

1.3 Intended audience:

Your target audience refers to **the specific group of consumers most likely to want your product or service**, and therefore, the group of people who should see your ad campaigns. Target audience may be dictated by age, gender, income, location, interests or a myriad of other factors.

1. Overall Description

2.1 Product Perspective

Project Catalog is where you let clients come to you. When you create a project, it displays as a listing that clients can open to learn more. Clients find you by searching for the skills and services you offer.

1. The **Admin** who is allowed to manage and control the apps

2.2 Product Functions:

The Consultation Project Management main functions are divided into three interfaces, the web-based is provided for Admin user and two mobile interfaces is provided for consultants and employers users

Table 1:CPM Functions

No.	Functions	Admin Panel WebApp	Consultant Mobile, Web App	Client Mobile, Web App	
2.2.1	Splash Screen				
	1. Loading splash screen	✖	✓	✓	
2.2.2	Registration				
	a. Registration Fields form	✖	✓	✓	
	b. Activation by OTP	✖	✓	✓	
	c. Email Confirmation	✖	✓	✓	
	d. Activation by Admin	✖	✓	✓	
2.2.3	User Login				
	a. User name input form	✓	✓	✓	
	b. Password input form	✓	✓	✓	
	c. Data Field validation	✓	✓	✓	
2.2.4	d. Forgot Password	✓	✓	✓	
2.2.5	User Profile				
	a. View user profile	✓	✓	✓	
	b. Edit user profile	✓	✓	✓	
	• Name	✓	✓	✓	

	• Mobile	✓	✓	✓
	• Image	✓	✓	✓
	• Email	✓	✓	✓
	• Bank account (IBAN)	✗	✓	✓
	License Document	✗	✓	✓
	• Consultant license document	✗	✓	✓
	• Commercial registration doc.	✗	✓	✓
	• Default location	✗	✓	✓
2.2.6	Manage Orders			
	a. View Orders	✓	✓	✓
	b. Cancel Orders	✓	✓	✓
	c. Edit Orders	✗	✓	✗

	d. Request Order	x	✓	x
	e. Re-request Order	x	✓	x
	f. Export Order to CSV/PDF	✓	x	x
	g. Filter Orders	✓	✓	✓
2.2.7	Online Payment			
	a. Pay online (Telr , Visa , master ,STC pay , etc.)	x	✓	✓
	b. Payment Integration	✓	✓	✓
	c. View payment type	✓	✓	✓
2.2.8	Manage Reviews			
	a. Rate Order Overall	x	✓	✓
	b. Rate options service	x	✓	✓
	c. Create comment	x	✓	✓
	d. Edit comment	x	✓	
	e. View comment	✓	✓	✓
	f. Delete comment	✓	✓	
2.2.9	Admin Dashboard			
	a. View overall product	✓	x	x
	b. View total payments	✓	x	x
	c. View total consultant	✓	x	x
	d. Monthly reports	✓	x	x
	e. View total income	✓	x	x
	f. Weekly reports	✓	x	x
	g. View total client	✓	x	x
2.2.11	Manage Wallet (Needs to discussed not confirmed)			
	a. Enable wallet	✓	x	x
	b. Integrate with payment gateway	✓	x	✓
	c. View wallet	✓	x	✓
	d. Add credit to wallet (manual)	✓	x	x
	e. Debit form wallet (manual)	✓	x	x

	f. Credit amount to wallet by payment gateway	✓	✗	✓
	g. Debit amount from wallet by payment gateway	✓	✗	✓

2.2.17	Manage Cost			
	a. View total cost	✓	×	✓
	b. Add package cost details	×	×	✓
2.2.18	Manage Settings			
	a. Select language	×	✓	✓
	b. Change password	✓	✓	✓
	c. Change mobile	×	✓	✓
	d. View Terms and conditions	✓	✓	✓
	e. Edit Terms and Conditions	✓	×	×
	f. View Contact us	✓	✓	✓
	g. Edit Contact us	✓	×	×

2.3 User Classes and Characteristics

There are four users are involved in Consultation Project Management(CPM) :

Table2: User Classes

No.	User	Objective
1	Admin	The admin has the full role privileges and can manage all types of users such as create, delete, edit, activate, or deactivate accounts and create staffs, manage payment transactions, promotion, cancelation, and banners.
2	Client	The client is an individual user who has Projects to offer to the consultants. The client user can manage and deal with the consultant to confirm or cancel the .
3	Consultant	The consultant will have the ability to register in the system to Consultation Project Management and can bid on projects that are offered by the Client.
4	Staff	Admin can create staff and assign roles as a customer service representative.

2.4 Operating Environment :

The Consultation Project Management application is a mobile based application and web based app will be configured and customized for web based, IOS and Android systems. The admin panel is a web-based application for the admin user and staff user.

#	User	Platform	Interface
1	Client	IOS, web browsers: Google chrome ,Ms Edge ,Firefox and safari	Mobile App Web
2	Client	Android	Mobile App
3	Consultant	IOS, Web browsers: Google Chrome, MS Edge, Firefox and Safari	Mobile App Web
4	Consultant	Android	Mobile App
5	Admin	web browsers : Google Chrome,Ms Edge, Firefox and Safari.	Web App

2.5 User Documentation:

- 2.5.1 Using Version Control tools e.g. Github or Bitbucket, etc, sharing the access for the last source code update.
- 2.5.2 The last version tested source code of Consultation Project Management written in standard shall be provided
- 2.5.3 Provide source code documentation for all user interfaces apps.
- 2.5.4 Provide test report documentation
- 2.5.5 API documentation shall be provided

3. Application Features

3.1 Functional Requirements specifications

In this section, the requirements are explained for all functions of the four users, including the use case for each.

3.1.1 Client Registration Functional requirement

FR-3.1.1.1	<u>Registration</u> : application shall be able to provide a facility to Client to register to the Consultation Project Management.
FR-3.1.1.2	<u>User Name</u> : application shall be able to provide a facility to Client to enter mobile number as username.
FR-3.1.1.3	<u>Password</u> : application shall be able to provide a facility to Client to input encrypted strong password, and validate it ,which at least have 8 characters, contains (lowercase letter + uppercase letter + special character +number)
FR-3.1.1.4	<u>Registration No.</u> : application shall be able to provide a facility to Lessor an auto-generated registration No. as the following format : <ol style="list-style-type: none"> 1. 1st two digits are city code 2. The three remaining digits are auto numbering. Example : City : Jeddah Registration No. : JD001
FR-3.1.1.5	<u>OTP</u> : application shall be able to provide a facility to the Client receives OTP to validate the mobile number.

Us Case ID:	L-UC001
Use Case Name:	Register
Actors:	Client
Preconditions:	Download the Consultation Project Management Order Client mobile App from the app store or play store .
Flow of Events of the Primary Scenario:	
1. Enters mobile no. as username 2. Enters the password 3. Receives OTP by mobile 4. Validate mobile number by sms OTP	
Flow of Events of the Alternative Scenarios:	

<ol style="list-style-type: none"> 1. OTP is invalid 2. Resend OTP (3 minutes time constraints)
Flow of Events of the Exception Scenarios:
<ul style="list-style-type: none"> • Mobile No. is already registered. Registration has not been completed
• Extension Points:
<ul style="list-style-type: none"> • Client details are not correct “unsuccessful registration “message will be displayed
Post conditions:
<ul style="list-style-type: none"> • Registration has been completed

Us Case ID:	L-UC002
Use Case Name:	Complete Profile
Actors:	Client
Preconditions:	Register
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Enters National ID 2. Enters DOB 3. Retrieve First Name & Last Name from Yaqeen api 4. Enters Email 5. Enters City 6. Enters IBAN account Bank 7. Select Default Location 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. skip complete profile 2. limited application functionality . 	
Flow of Events of the Exception Scenarios:	

2e- National ID is invalid

1- Re-enters the ID no.

Extension Points:

Client details are not completed “profile not completed “message will be displayed

Us Case ID:	L-UC003
Use Case Name:	Validate National ID
Actors:	Client
Preconditions:	Complete profile
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Enters National ID 2. Enters DOB 3. Validate national ID 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Cancels Entering National ID 2. Redirects to the application with limited functionality. 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> • Invalid entries, the complete profile has not been completed 	
Post conditions:	
<ul style="list-style-type: none"> • Complete profile has been completed. 	

3.2.2 Consultant Registration Functional requirement

FR-3.2.2.1	<u>Registration:</u> application shall be able to provide a facility to Consultant to register to the Consultation Project Management.
FR-3.2.2.2	<u>User Name</u> : application shall be able to provide a facility to Consultant to enter mobile number as username.
FR-3.2.2.3	<u>Password:</u> application shall be able to provide a facility to Consultant to input encrypted strong password, and validate it ,which at least have 8 characters, contains (lowercase letter + uppercase letter + special character +number)
FR-3.2.2.4	<u>OTP</u> : application shall be able to provide a facility to Consultant receives OTP to validate the mobile number.

Use Case ID:	R-UC001
Use Case Name:	Register
Actors:	consultant ,sms gateway
Preconditions:	Download the Order consultant mobile App from the app store or play store.
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Enters mobile no. as username 2. Enters the password 3. Receives OTP by mobile 4. Validate by OTP 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Enters invalid OTP 2. Applies Resend OTP 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> ● Mobile no. is already registered. Registration will not be completed return to step 1 	
Extension Points:	
<ul style="list-style-type: none"> ● Consultant details are not correct “unsuccessful registration “message will be displayed 	
Post conditions:	
<ul style="list-style-type: none"> ● The application will Generate Registration No. 	

- Redirect to complete the registration form.

Us Case ID:	R-UC002
Use Case Name:	Complete Profile
Actors:	Client
Preconditions:	Register
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Enters First Name & Last Name 2. Enters DOB 3. Enters Email 4. Enters City 5. Enters Gender 6. Upload Photo 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Skips complete profile 2. Limited application functionality . 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 1. Invalid data entry , profile is not completed 	
Extension Points:	
Client details are not completed “profile not completed “message will be displayed	
Post conditions:	
<ul style="list-style-type: none"> • Complete profile has been completed Start mobile App . 	

3.3.1 Admin Login Functional Requirements

FR-3.3.1.1	Login: application shall be able to provide a facility to Admin to access to the CPM web-app admin panel by login function
FR-3.3.1.2	User Name: application shall be able to provide a facility to Admin to enter the username.
FR-3.3.1.3	Password: application shall be able to provide a facility to Admin to input encrypted strong password, and validate it, which at least have 8 characters, contains (lowercase letter + uppercase letter + special character + number)
FR-3.3.1.4	Forget Password . : application shall be able to provide a facility to Admin to reset the password by sending a link to the admin email

3.3.2 Client Login Functional Requirements

FR-3.3.2.1	Login: application shall be able to provide a facility to Client to access to the Client app by login function.
FR-3.3.2.2	User Name: application shall be able to provide a facility to Client to enter the mobile number as username .
FR-3.3.2.3	Password: application shall be able to provide a facility to Client to input encrypted strong password, and validate it, which at least have 8 characters, contains (lowercase letter + uppercase letter + special character + number)
FR-3.3.2.4	Forget Password . : application shall be able to provide a facility to Client to reset the password by sending an OTP to the registered mobile number.

Us Case ID:	L-UC004
Use Case Name:	Login
Actors:	Client
Preconditions:	Launch the Client mobile app
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Enters mobile no. as username 2. Enters the password 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Forget password. 2. Reset the password by sending OTP to the registered mobile number 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 1. Invalid mobile no. or password 2. re-type the user name and password 	
Extension Points:	
“invalid password “ or mobile number “message will be displayed	
Post conditions:	
<ul style="list-style-type: none"> ● Start Client mobile app with full functionality 	

3.3.3 Consultant Login Functional Requirements

Us Case ID:	R-UC003
Use Case Name:	Login
Actors:	Consultant
Preconditions:	Launch the Consultant mobile app
Flow of Events of the Primary Scenario:	
1. Enters mobile no. as username 2. Enters the password	
Flow of Events of the Alternative Scenarios:	
1. Skips the login 2. limited application functionality 3. Selects forget password. 4. Resets the password by sending OTP to the registered mobile number	
Flow of Events of the Exception Scenarios:	
1e- Invalid mobile no. or password 1- re-type the user name and password	
Extension Points:	
“invalid password “ or mobile number “message will be displayed	
Post conditions:	
● Start Consultant app with full functionality	

Use Case ID:	A-UC001
Use Case Name:	Login
Actors:	Admin
Preconditions:	Access Web Admin
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Enters the username 2. Enters the password 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Forget password. 2. reset the password by sending a reset link to admin Email 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 1. Invalid user name or password 2. re-type the user name and password 3. login is not successful 	
Extension Points:	
“invalid password “ or mobile number “message will be displayed	
Post conditions:	
<ul style="list-style-type: none"> • Access web admin with full privileges 	

3.4.1 Admin Manage Orders Functional Requirements

FR-3.4.1.1	<u>View Orders</u> : Application shall be able to provide a facility to Admin to view all the orders are created by consultants and accepted by Clients . All orders details have to be shown in the list as follows : <ol style="list-style-type: none">1. Order No.2. Order status (confirmed, completed, awaiting confirmation or canceled and canceled by)3. Order date4. Payment Details
FR-3.4.1.2	<u>Filter Orders</u> : application shall be able to provide a facility to Admin to filter the order list as follows : <ol style="list-style-type: none">1. Date range of Orders2. Order status3. Type of Order (Hourly or Fixed price)

FR-3.4.1.3	<u>Cancel Order:</u> Application shall be able to provide a facility to Admin to cancel paid and unpaid orders and app can manage the process of refund from payment gateway or form wallet.
FR-3.4.1.4	<u>View Log :</u> Application shall be able to provide a facility to Admin to view the log file of cancellation is done by admin and shows the details of the user cancelation actions with the reasons .
FR-3.4.1.5	<u>Export Orders :</u> Application shall be able to provide a facility to Admin to Export all order details in CSV format or pdf.

Use Case ID:	A-UC002
Use Case Name:	View Orders
Actors:	Admin
Preconditions:	Login to Web Admin
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Select view orders 2. List all orders details 3. View orders no. 4. View order status (confirmed , completed ,awaiting for confirm or canceled and canceled by) 5. View orders date 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Select specific order 2. List all order details 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> ● No order available 	
Post conditions:	
<ul style="list-style-type: none"> ● The view order has completed 	

Use Case ID:	A-UC003
Use Case Name:	Filter Orders
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> ● Login to Web Admin ● View Orders
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Select Order 2. Enters filter by Date, status or type of order 3. List all order based on filter data 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Reset filter data 2. List all order records 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 1. Invalid filter data entries 2. No output result 	
Post conditions:	
<ul style="list-style-type: none"> ● The Filter order has completed 	

Use Case ID:	A-UC004
Use Case Name:	Cancel Orders
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> ● Login to Web Admin ● View Order
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Select orders 2. Apply cancel action 3. Enter the reason for cancellation. 	

<ol style="list-style-type: none"> 4. Confirm cancelation 5. Refund payment request 6. Register the cancelation details in the log file
Flow of Events of the Alternative Scenarios:
<ol style="list-style-type: none"> 1. Select cancelation 2. Apply cancelation 3. Not confirm the cancelation and apply cancel action 4. Order Cancellation is not completed
Flow of Events of the Exception Scenarios:
<ol style="list-style-type: none"> 1. Order not exist or canceled by other user 2. Order cancelation has not completed
Post conditions:
<ul style="list-style-type: none"> • The cancelation has completed

3.4.2: CLIENT Manage Orders Functional Requirements

FR-3.4.2.1	<u>View Order:</u> Application shall be able to provide a facility to Client to view all the orders issued by Consultants and accepted by Client. All orders details has to be shown in the list view as follows : <ol style="list-style-type: none">1. Order No.2. Order status (confirmed, completed, awaiting confirmation or canceled and canceled by)3. Order date4. Payment details
FR-3.4.2.2	<u>Filter Orders:</u> application shall be able to provide a facility to Client to filter the order list as follows : <ol style="list-style-type: none">4. The date range of orders5. Order status6. Type of orders (Hourly or fixed)
FR-3.4.2.3	<u>Cancel Order:</u> Application shall be able to provide a facility to Client to cancel paid and unpaid orders and apply the orders fees if applicable, also the app can manage the process of refund from the payment gateway or form wallet.
FR-3.4.2.4	<u>Confirm Request:</u> Application shall be able to provide a facility to Client to confirm the request of orders form the Consultant .

Us Case ID:	L-UC005
Use Case Name:	View Orders
Actors:	Client
Preconditions:	Login to Client Mobile App , Web
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none">1. View orders2. List all orders details3. View orders no.4. View orders status (confirmed, completed, awaiting confirmation or canceled and canceled by)5. View orders date6. View orders payment amount, payment status, and payment details	

Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. View orders as per type (confirmed, completed ,awaiting confirmation or canceled) 2. List orders 	
Flow of Events of the Exception Scenarios:	
No orders available	
Post conditions:	
<ul style="list-style-type: none"> • The view orders has completed 	

Us Case ID:	L-UC006
Use Case Name:	Filter Orders
Actors:	Client
Preconditions:	<ul style="list-style-type: none"> • Login to Client Mobile App and web • View Orders
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. View orders 2. Selects Filter 3. Enters filter by Date, status or type of orders (confirmed, completed, awaiting confirmation or canceled and canceled by) 4. List all orders based on filter entries 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Selects orders tap (confirmed, completed, awaiting confirmation or canceled) 2. Lists all available orders 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 1. Invalid filter data entries 2. No output result 	
Post conditions:	

Use Case ID:	L-UC007
Use Case Name:	Cancel Orders
Actors:	Client
Preconditions:	<ul style="list-style-type: none"> • Login to Web Admin • View Orders
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Select orders 2. Apply cancel action 3. Enter the reason for cancellation. 4. View cancelation fees 5. Confirm cancelation 6. Refund payment request 7. Register the cancelation details in the log file 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Select orders 2. Apply cancelation 3. Not confirming the cancelation and apply cancel action 4. Order Cancellation is not completed 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 3. Orders does not exist or canceled by another user 4. Orders cancelation has not been completed 	
Post conditions:	
<ul style="list-style-type: none"> • The cancelation has been completed 	

3.4.3: Consultant Manage Orders Functional Requirements

Us Case ID:	R-UC005
Use Case Name:	Request Order
Actors: s	Consultant, Client , Payment Gateway
Preconditions:	Login to Consultant Mobile App View map (UC004) View available CPM, packages.
Post conditions:	
<ul style="list-style-type: none">• The request order has been completed	

Use Case ID:	R-UC006
Use Case Name:	View Order
Actors:	Consultant
Preconditions:	Login to Consultant Mobile App, Web
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. View orders 2. List all orders details 3. View order No. 4. View order status (confirmed, completed, awaiting confirmation, or canceled and canceled by) 5. View order date 6. View order payment amount, payment status, and payment details 7. View order type (CPM ,packages ,or sea activities) 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. View orders as per type (confirmed, completed ,awaiting confirmation or canceled) 2. List orders 	
Flow of Events of the Exception Scenarios:	
No order is available	
Post conditions:	
<ul style="list-style-type: none"> • The view order has been completed 	

Use Case ID:	R-UC007
Use Case Name:	Re-Request Order
Actors:	Consultant
Preconditions:	Login to Consultant mobile App, web View Orders Request Order
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects previously completed order 2. Changes date and the number of passengers 3. Applies request order 	

Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Filters or searches a order 2. Selects the order 3. Applies step 2 in the primary scenario. 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> • No order is available 	
Post conditions:	
<ul style="list-style-type: none"> • The view order has been completed 	

Us Case ID:	R-UC008
Use Case Name:	Edit Order
Actors:	Consultant
Preconditions:	Login to Consultant mobile App, web View Orders
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects previously confirmed order. 2. Changes date and the number of passengers. 3. Applies request order. 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Filters or searches a order 2. Selects the order 3. Applies step 2 in the primary scenario. 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> • No order is available 	
Post conditions:	
<ul style="list-style-type: none"> • The view order has completed 	

Use Case ID:	R-UC009
Use Case Name:	Filter Order
Actors:	Consultant
Preconditions:	<ul style="list-style-type: none"> ● Login to consultant Mobile App, Web ● View Order
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. View Order 2. Selects Filter 3. Enters filter by Date, status or type of order (confirmed, completed, awaiting confirmation or canceled and canceled by) 4. List all orders based on filter entries 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Selects order tap (confirmed, completed, awaiting confirmation or canceled) 2. Lists all available order 	
Flow of Events of the Exception Scenarios:	
<ol style="list-style-type: none"> 1. Invalid filter data entries 2. No output result 	
Post conditions:	
The filter action has been completed and the result is shown	

Use Case ID:	R-UC010
Use Case Name:	Cancel Orders
Actors:	Consultant
Preconditions:	<ul style="list-style-type: none"> ● Login to Consultant mobile app ● View Order
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects order 2. Applies action cancel 3. Enter the reason for cancellation. 	

4. Accepts cancelation fees
5. Confirms cancelation
6. Refund payment request
7. Register the cancelation details in the log file

Flow of Events of the Alternative Scenarios:

1. Select order
2. Apply cancelation
3. Not confirming the cancelation and apply cancel action
4. Order Cancellation is not completed

Flow of Events of the Exception Scenarios:

1. Order does not exist or canceled by another user
2. Order cancelation has not been completed

Post conditions:

- The cancelation has been completed

3.5.1: Admin Manage Wallet Functional Requirements (needs to discuss)

FR-3.5.1.7	<u>Configure wallet:</u> application shall be able to provide a facility to Admin to enable or disable the wallet function.
FR-3.5.1.8	<u>View wallet:</u> application shall be able to provide a facility to Admin to View wallet details (credit, debit, refund, balance, reasons, comment, date)
FR-3.5.1.9	<u>Edit Wallet:</u> application shall be able to provide a facility to Admin to credit, deposit refund amount to the wallet .
FR-3.5.1.10	<u>View Log :</u> application shall be able to provide a facility to Admin to View all logs action to the wallet such as (debit, credit , balance , date , reason, comment)

Use Case ID:	A-UC007
Use Case Name:	Configure Wallet
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> Login to Web Admin
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> Selects user profile Enables wallet 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> Selects user profile Disables Wallet 	
Flow of Events of the Exception Scenarios:	
User does not exist or no wallet functions feature is available	
Post conditions:	
<ul style="list-style-type: none"> Configure wallet has been completed 	

Use Case ID:	A-UC008
Use Case Name:	View Wallet
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> Login to Web Admin
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> Selects user profile Views wallet details (credit, debit, balance) 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> Lists all user wallets Views wallet details (credit, debit, balance) 	
Flow of Events of the Exception Scenarios:	
User does not exist or no wallet functions feature is available	

Use Case ID:	A-UC009
Use Case Name:	Edit Wallet
Actors:	Admin, Payment gateway
Preconditions:	<ul style="list-style-type: none"> ● Login to Web Admin ● View wallet
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects edit 2. Selects credit/debit/refund 3. Enters the amount 4. Selects type of credit/debit/refund 5. Types reason or comment 6. Applies confirm action 	
Flow of Events of the Alternative Scenarios:	
1. Credit/debit/refund is done due to payment transaction from the payment gateway	
Flow of Events of the Exception Scenarios:	
User does not exist or no wallet functions feature is available	
Post conditions:	
<ul style="list-style-type: none"> ● Edit wallet has been completed 	

Use Case ID:	A-UC010
Use Case Name:	View Log
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> ● Login to Web Admin ● View wallet
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects user profile 2. Views wallet 3. Selects view log 4. Preview all log details (credit, debit, refund, balance, reasons, comment, date, etc.) 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Lists all user wallets 2. Selects view logs 	

3. Preview all log details (credit, debit, refund, balance, reasons, comment, date, etc.)
Flow of Events of the Exception Scenarios:
User does not exist, view log doesn't have data or no wallet functions feature is available
Post conditions:
<ul style="list-style-type: none"> View log wallet has been completed

3.6.1 Client Manage Wallet Functional Requirements

FR-3.6.2.1	<u>View wallet</u> : Application shall be able to provide a facility to Client to View wallet details (credit, debit, refund, balance, reasons, comment, date)
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Use Case ID:	L-UC008
Use Case Name:	View Wallet
Actors:	Client
Preconditions:	<ul style="list-style-type: none"> Login to Client mobile app, Web
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> Selects view wallet Preview all wallet details (credit, debit, refund, balance, reasons, comment, date, etc.) 	
Flow of Events of the Alternative Scenarios:	
N/A	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> User does not have a wallet enabled. No wallet data is shown. 	
Post conditions:	
<ul style="list-style-type: none"> View wallet has been completed 	

3.7.1 : Admin Manage Consultation Functional Requirements

FR-3.7.1.1	<p><u>View Consultation:</u> Application shall be able to provide a facility to Admin to view the Project are created by Consultant with the following details :</p> <ul style="list-style-type: none">● Id (auto-generated)● Name (Compulsory)● Created date (auto-generated)● Type (Compulsory)● Photos (Compulsory)
FR-3.7.1.2	<p><u>Configure Project Type:</u> Application shall be able to provide a facility to Admin to configure Consultation and shall be able to</p>

	<ul style="list-style-type: none"> • Add • Edit • Delete
FR-3.8.1.3	Delete Project: Application shall be able to provide a facility to Admin to delete the Project.

Use Case ID:	A-UC011
Use Case Name:	View Project
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> • Login to Web Admin
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects View Project 2. Lists all available project with details (Id, Name, Created date, Type, Photos) 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Selects user profile 2. Lists all projects related to the user 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> • User does not exist or no project is created. 	
Post conditions:	
<ul style="list-style-type: none"> • View projects has been completed 	

Use Case ID:	A-UC012
Use Case Name:	Configure Type (Add, Edit, Delete)
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> ● Log in to Web Admin ● View Consultation
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects configure project type 2. Selects add 3. Adds the project type (Photoshop, web dev, app dev, etc.) 4. applies confirmation 	

Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Selects configure project type 2. Selects project type 3. Selects edit or delete action 4. Edit the type 5. Update the type 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> • Edit and delete are not applied if the project type has a reference in a repository. 	
Post conditions:	
<ul style="list-style-type: none"> • Configure project has been completed 	

Use Case ID:	A-UC013
Use Case Name:	Delete Project
Actors:	Admin
Preconditions:	<ul style="list-style-type: none"> • Login to Web Admin • View Consultation • View user
Flow of Events of the Primary Scenario:	
<ol style="list-style-type: none"> 1. Selects Project 2. Applies delete action 3. Confirms delete action 	
Flow of Events of the Alternative Scenarios:	
<ol style="list-style-type: none"> 1. Selects user (Client) 2. Views the Project related to the user 3. Applies delete action 4. Confirms delete action 	
Flow of Events of the Exception Scenarios:	
<ul style="list-style-type: none"> • Hard deletion is not applied if the project type has a reference in a repository. • Soft deletion is applied 	
Post conditions:	
<ul style="list-style-type: none"> • Delete Consultation Project Management has been completed 	

Functional and non-Functional Requirements:

Functional Requirements:

Following are the key functional requirements of proposed Project:

1. Sign In and User Registration

There will be four categories of Website users:

- Visitor (Unregistered User)
- Client
- Consultant
- Administrator(Admin)

Clients will have the privileges to Post jobs, Review bids, Award projects and other project related tasks on the website.

Consultant will have the rights of bidding on a Project, checking bidding status; submitting the Project files to client and performing other Project related tasks.

Administrator will be the user having all the rights of the website. Admin will also approve the registration requests from users.

There will be a Sign In interface for registered users and Sign Up interface for unregistered users to register on the website as Clienter and Consultant.

2. User management (Approving/rejecting user registration requests)
3. User authentication (Conformation link shall be sent on user's email address provided while registration)
4. Client Dashboard (proper interfaces for managing employer related tasks)
5. Consultant Dashboard (proper interfaces for managing consultant related tasks)
6. Consultant service selling interface

7. Job/Projects Management for client

- a. Using this interface the employer could:
 - i. Post jobs
 - ii. Reviewbids
 - iii. Award projects

- iv. Open Project MessageBoard
- v. Collect project related files
- vi. Provide Project related information to Consultant
- vii. Other Project related tasks

8. Job/Projects Management for consultant

b. Using this interface a consultant could:

- i. Bid on a Project
- ii. Check bidding status
- iii. Reply on a Project Message
- iv. Submit the Project files to employer
- v. Other Project related tasks

Non-Functional Requirements:

Performance:

Performance requirements concern the speed of operation of a system. The non-functional requirements should identify those software functions that have constraints on their performance.

Maintainability:

Maintainability requirements may cover diverse levels of documentation, such as system documentation, as well as test documentation, e.g. which test cases and test plans will accompany the system.

Usability:

It is an easy way for a user to learn to operate. It has a well-formed GUI.

Portability:

Portability specifies the ease with which the software can be installed on all necessary platforms, and the platforms on which it is expected to run.

Reliability:

Reliability is the ability of a system to perform its required functions under specific period of time

Usage Scenarios:

1. AssignTask

Use Case Title	Assign task
Use Case Id	001
Actor	Client
action	Client assigns new tasks.
Description	<ol style="list-style-type: none">1. Clients click on the assigned task button.2. System asks related information to the task.3. After submitting the form task added successfully.4. This use case ends.
Pre-condition	Assign tasks are not added.
Post-Conditions	Assign tasks added successfully.

2. FileShare

Use Case Title	File share
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Use Case Id	002
Actor	Client
action	Clients share all types of shared files.
Description	<ol style="list-style-type: none"> 1. Client clicks on the file share button. 2. System asks related information to file. 3. After submitting the form file share was added successfully. 4. This use case ends.
Pre-condition	File share is not added.
Post-Conditions	File share added successfully.

3. Post Project

Use Case Title	Post project
Use Case Id	003
Actor	Client
action	Clients post all types of project.
Description	<ol style="list-style-type: none"> 1. Client clicks the post project button. 2. System asks related information to project. 3. After submit form, the project added successfully. 4. This use case ends.
Pre-condition	Post project is not added.
Post-Conditions	Post project added successfully.

4. Check Bids

Use Case Title	Check bids
Use Case Id	004
Actor	Client
action	Clients check all types of bids.
Description	<ol style="list-style-type: none">1. Client clicks the check bids button.2. System asks related information to bids.3. After submitting the form bid was added successfully.4. This use case ends.
Pre-condition	Check bids are not added.
Post-Conditions	Check bids added successfully.

5. ReviewBids

Use Case Title	Review bids
Use Case Id	005
Actor	Client
action	Clients review all types of bids.
Description	<ol style="list-style-type: none">1. Client click review bids button.2. System asks related information to review bids.3. After submitting the form, review bids were added successfully.

	4. This use case ends.
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Pre-condition	Review bids are not added.
Post-Conditions	Review bids added successfully.

6. View Profile Consultant

Use Case Title	View profile freelance
Use Case Id	006
Actor	Client
action	Clients view all type of profile.
Description	<ol style="list-style-type: none"> 1. Client click profile button. 2. System asks related information to profile. 3. After submitting the form profile added successfully. 4. This use case ends.
Pre-condition	View profile freelance is not added.
Post-Conditions	View profile freelance added successfully.

7. Payment

Use Case Title	Payment
Use Case Id	007

Actor	Client
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action	Clients manage all types of payments.
Description	<ol style="list-style-type: none"> 1. Client clicks the payment button. 2. System asks related information to payment. 3. After submitting the form payment was added successfully. 4. This use case ends.
Pre-condition	Payment is not added.
Post-Conditions	Payment added successfully.

8. AssignProject

Use Case Title	Assign project
Use Case Id	008
Actor	Client
action	Clients assign all types of project.
Description	<ol style="list-style-type: none"> 1. Client clicks the assign project button. 2. System asks related information to assign projects. 3. After submit form, the assigned project was added successfully. 4. This use case ends.
Pre-condition	Assign project is not added.
Post-Conditions	Assign project added successfully.

9. Messaging

Use Case Title	Massaging
Use Case Id	009

Actor	Client/consultant
action	Client/consultant send and receive message.
Description	<ol style="list-style-type: none"> 1. Client click message button. 2. System asks related information to message. 3. After submit form message added successfully. 4. This use case ends.
Pre-condition	Massaging is not added.
Post-Conditions	Massaging added successfully.

10. Rank Consultant

Use Case Title	Rank freelance
Use Case Id	0010
Actor	Client
action	Client check of rank in freelance.
Description	<ol style="list-style-type: none"> 1. Client click rank button. 2. System asks related information to rank. 3. After submit form rank added successfully. 4. This use case ends.

Pre-condition	Rank freelance is not added.
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Post-Conditions	Rank freelance added successfully.

11. Login

Use Case Title	Login
Use Case Id	0011
Actor	Client/freelance/admin/visitor
action	Client/freelance/admin/visitor login.
Description	<ol style="list-style-type: none"> 1. Client/freelance/admin/visitor click login button. 2. System asks related information to login. 3. After submit form login added successfully. 4. This use case ends.
Pre-condition	Login is not added.
Post-Conditions	Login added successfully.

12. Logout

Use Case Title	Login
Use Case Id	0012
Actor	Client/freelance/admin/visitor
action	Client/freelance/admin/visitor logout.

Description	<ol style="list-style-type: none"><li data-bbox="574 197 1284 275">1. Client/freelance/admin/visitor click logout button.<li data-bbox="574 281 1243 323">2. System asks related information tologout.
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	3. After submit form logout added successfully. 4. This use case ends.
Pre-condition	Logout is not added.
Post-Conditions	Logout added successfully.

Consultant

13. Bid OnProject

Use Case Title	Bid on project
Use Case Id	0013
Actor	Consultant
action	Consultant check all bid on project.
Description	1. Consultant click bid on project button. 2. System asks related information to bid on project. 3. After submit form project added successfully. 4. This use case ends.
Pre-condition	Bid on project is not added.
Post-Conditions	Bid on project added successfully.

14. Register

Use Case Title	Register
Use Case Id	0013

Actor	Consultant/employ/visitor
action	Consultant/employ/visitor register first.
Description	<ol style="list-style-type: none"> 1. Consultant click register button. 2. System asks related information to him/herself. 3. After submit form register added successfully. 4. This use case ends.
Pre-condition	Register is not added.
Post-Conditions	Register added successfully.

15. PaymentVerification

Use Case Title	Payment verification
Use Case Id	0015
Actor	Consultant
action	Consultant verify payment.
Description	<ol style="list-style-type: none"> 1. Consultant click payment verified button. 2. System asks related information to payment. 3. After submit form payment added successfully. 4. This use case ends.
Pre-condition	Payment verification is not added.
Post-Conditions	Payment verification added successfully.

16. ViewProject

Use Case Title	View project
Use Case Id	0016
Actor	Consultant/visitor
action	Consultant/visitor view all type of project.
Description	<ol style="list-style-type: none"> 1. Consultant click view project button. 2. System asks related information of project. 3. After submit form project added successfully. 4. This use case ends.
Pre-condition	View project is not added.
Post-Conditions	View project added successfully.

17.View Bid Status

Use Case Title	View bid status
Use Case Id	0017
Actor	Consultant
action	Consultant view all type of bid status.
Description	<ol style="list-style-type: none"> 1. Consultant click bid status button. 2. System asks related information to bid status. 3. After submit form bid status added successfully. 4. This use case ends.
Pre-condition	View bid status is not added.

Post-Conditions	View bid status added successfully.

18. Deliver Project

Use Case Title	Deliver project
Use Case Id	0018
Actor	Consultant
action	Consultant deliver all type of project.
Description	<ol style="list-style-type: none"> 1. Consultant click deliver project button. 2. System asks related information to deliver project. 3. After submit form project added successfully. 4. This use case ends.
Pre-condition	Deliver project is not added.
Post-Conditions	Deliver project added successfully.

19.ViewTask

Use Case Title	View task
Use Case Id	0019
Actor	Consultant

action	Consultant views all task.
Description	<ol style="list-style-type: none"> 1. Consultant click view task button. 2. System asks related information to view task. 3. After submit form, the view task added successfully. 4. This use case ends.
Pre-condition	View task is not added.
Post-Conditions	View task added successfully.

Admin

20. Approved Registration

Use Case Title	Approved registration
Use Case Id	0020
Actor	Admin
action	Admin approved all registration.
Description	<ol style="list-style-type: none"> 1. Admin click approve registration button. 2. System asks related information to approve registration. 3. After submit form approve registration added successfully. 4. This use case ends.
Pre-condition	Approved registration is not added.
Post-	Approved registration added successfully.

Conditions	

21. ViewAuthentication

Use Case Title	View authentication
Use Case Id	0021
Actor	Admin
action	Admin view authentication.
Description	<ol style="list-style-type: none">1. Admin click view authentication button.2. System asks related information to view authentication.3. After submit form authentication added successfully.4. This use case ends.
Pre-condition	View authentication is not added.
Post-Conditions	View authentication added successfully.

22. Consultant Dashboard

Use Case Title	Client /Freelance dashboard
Use Case Id	0022
Actor	Admin
action	Admin check employ/consultant dashboard.
Description	<ol style="list-style-type: none">1. Admin click dashboard button.2. System asks related information to dashboard.3. After submit form dashboard added successfully.4. This use case ends.
Pre-condition	Freelance/employ dashboard is not added.
Post-Conditions	Freelance/employ dashboard added successfully.

23.View Earning

Use Case Title	View earning
Use Case Id	0023
Actor	Admin
action	Admin views all types of earning.
Description	<ol style="list-style-type: none">1. Admin click the earning button.2. System asks related information to view earnings.3. After submitting a form view earning registration added successfully.4. This use case ends.
Pre-condition	View earnings are not added.
Post-Conditions	View earning added successfully.

Adopted Methodology

In my project “**Online solution for Research Proposal writing and submission**” I have chosen the methodology for developing this project is waterfall and spiral model. Because these methodologies have more advantages and very less disadvantages.

Reasons for choosing the Methodology:

Straight-Forward:

This Methodology is very straightforward and easy to understand. By this Methodology a person can easily understand what to do.

Implementation Phase:

Project can move quickly to the implementation phase because of this adopted methodology.

Significant and Reliability:

Does work for certain problem domains, notably those where the requirements are well understood in advance and unlikely to change significantly over the course of development, and where reliability of the final product is critical. This assumes you have the resources i.e. Time and People, to do it properly.

Control Requirement Issues:

By choosing this methodology we do not require all project resources at the beginning of the project. As we go the requirement needs step by step.

Reduce Complexity:

This methodology reduces the complexity of the project. At initial state when we start the project and not have any idea about this project then these

methodologies allow for a very complex project with incomplete initial understanding of requirement since development is done in small, spiral phases where each phase consists of requirements, risks analysis, and design.

Communicational way between developer and customer:

Their methods in a growth of development oscillate between manufacturer and Client. It establishes effective communication between developer and customer. Through this the developer can easily understand what customers want and can judge the customer's requirements.

Reduce Insufficient Involvement:

It assesses both technical and management risks, it controls the insufficient user involvement leads to unaccepted product. If inputs from different types of users are not taken, the output is bound to lack in key functional areas, resulting in an unacceptable product. Overlooking the needs of certain user classes leads to dissatisfaction of customers.

Ability to fulfill Requirements:

It changes the requirements of the software. During any stage of developing software if any new requirement comes then this methodology provides us the facility to fill it. It builds one or more representations of the application. Creeping user requirements contribute to overruns and degrade product quality. Requirement creep is one of the most significant factors in budget and time overruns. It basically means identifying and adding new requirements to the list at some advanced stages of the software development process.

Prototyping and Feedback Evaluation:

It reduces the dissatisfaction of the customer and provides the concept of a better satisfaction idea for the customer. It captures the idea for user's vision of the product and get early feedback from the user to ensure that the development team understands requirements. It obtains customers feedback based on

evaluation of the software representations created during the engineering stage and implemented during the installation stage.