

Technical Document – Annexure I of Dumpster Booking Mobile Application

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Annexure I

1. Project Overview

✓ Business Need

Client needs a platform where users can book a dumpster as per their need and time preference and make payment online for the same. The company will drop-off and pick up the dumpster from and to the user's location respectively. Dumpster's details and availability will be manage by the admin. Driver Management will be done offline by admin.

✓ Solution Suggested

As a solution we suggest to create a mobile app for the users, where they can enter the drop-off location, date and time of booking and duration and select the dumpster type as per their preference and make the payment online. Users can see the booking details, they can cancel the booking before the status is set to "on the way". Refund will be initiated from the admin by approving the refund request.

Admin can manage users, dashboard, dumpsters, bookings, transactions, notifications, and content from the backend.

✓ Stakeholders

Actor	Task
Users	Users can book dumpsters from the mobile app.
Admin	Admin can manage users, dashboard, dumpsters, bookings, transactions, notifications, and content from the backend.

✓ Project Scope and Development Deliverables

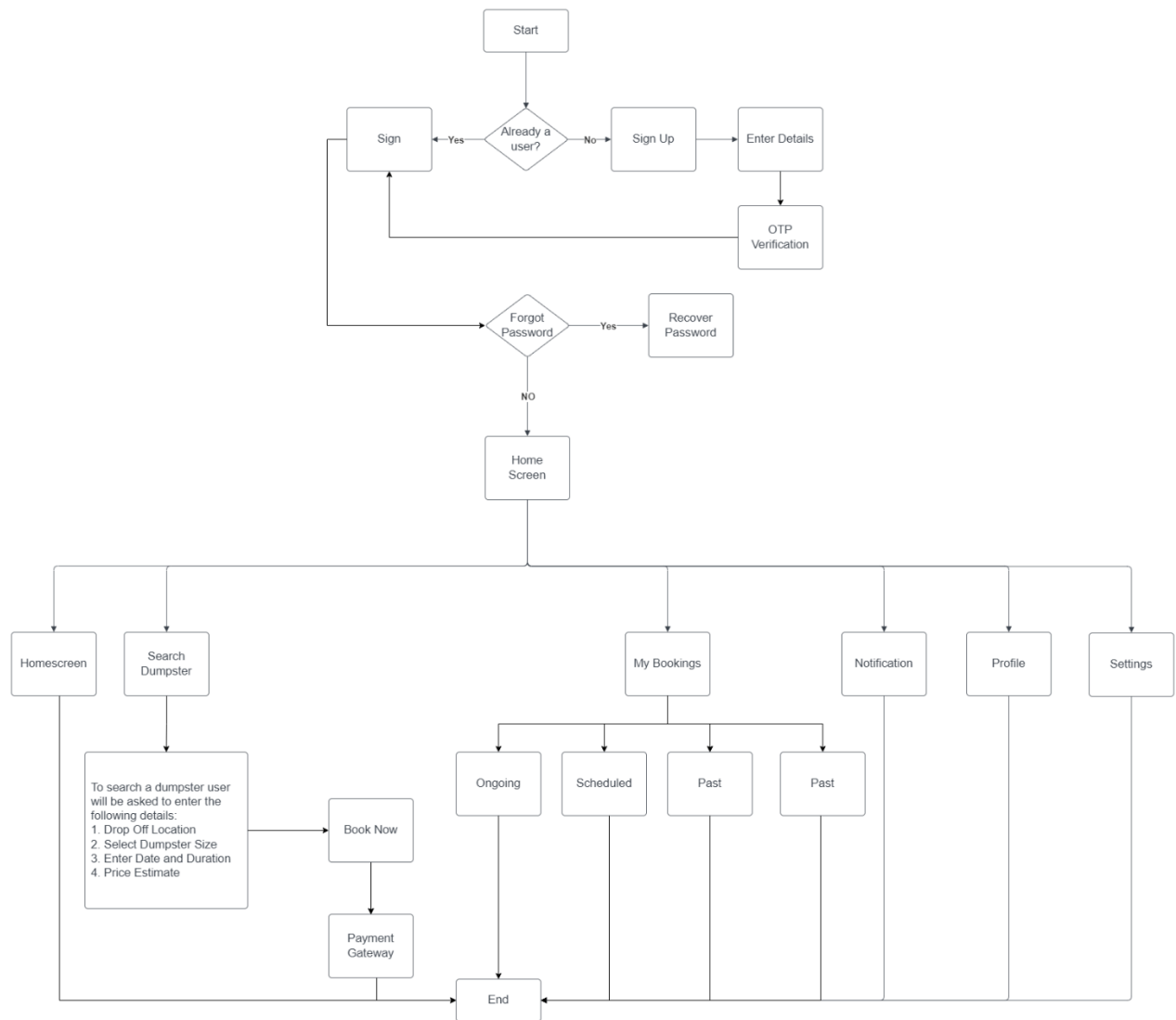
This project scope comprises of the following components to deliver:

- Design and Development of Mobile Application for Users (iOS & Android)
- Development and Integration of API
- Development of Admin Web Panel

2. Technologies

Development Phases		Tools & Technology
Requirement Gathering and Analysis	Proposal Drafting, SRS Writing and User Flow Diagram	Microsoft Office Word 2019 / Microsoft Office Presentation 2019 / Microsoft Office Vision 2019
	Wire Framing	Axure / UiZard
Development	Application	Flutter / React Native
	Web Backend	Node.js / PHP (Laravel)
	Database	MongoDB / MySql
Version/s Supported	Android	9.0 and above
	iOS	13.0 and above
	Browser	Google Chrome, Safari, Mozilla Firefox
Quality Assurance & Testing	Test Cases	MS Office Excel 2019
	Testing	Manual

3. User Flow Diagram



4. Features and Scope of Work

4.1. User Flow for User Mobile App

➤ **Splash Screen**

- The launch screen of the Application where end users will be able to view the app's logo.

➤ **Walkthrough Screen**

- Users will be able to view 3-4 walkthrough screens, which will be helpful for the users to have an idea about the app.

➤ **Authentication**

- **Sign In**

- The Users will be able to login into the application using the below details:
 - Mobile Number
 - Password
- **Forgot Password**
- Clicking on this user would be redirected to the Forgot Password screen where user need to enter the below details:-
 - Mobile Number (To receive the OTP for verification).
 - OTP
 - After the OTP is verified user would be asked to mention below details in order to change the password:-
 - New Password
 - Confirm New Password

- **Sign Up**

- Users will be able to sign up using below details: -
 - First Name & Last Name
 - E-Mail ID
 - Mobile Number
 - Password

- Confirm Password
- Checkbox for Terms and Conditions

- **OTP Verification**

- Sign-up process has to be verified through mobile number.

➤ **Home Screen**

- This screen would be the main screen of the application with the following content:
- This screen would comprise of below details: -
 - Search Dumpster
 - My Bookings
 - Notification
 - Account
 - Settings

Note: - If the booking is on-going, users will view the current booking on home screen

➤ **Search Dumpster**

- User will be able to search the dumpster and see availability for a particular day, time, and duration: -
- **Drop-Off Location**
 - The location access feature on the application will detect user's current location.
 - User will be able to enter their drop off location manually if it's different from the current one.
 - Users can also select location by placing the pin icon on the map.
- **Select Dumpster Size**
 - User can view the type of dumpster.
 - User can select the dumpster type from here.
- **Enter Date**
 - User can enter the date of booking.
 - Based on the date of booking the available timeslots will appear.

- User can select the time slot from the available time slots.

- **Duration**

- After selecting the time slot, user can enter the duration for which the dumpster will be required.

- **Price Estimate**

- Based on the above entered details the price estimate will appear
 - Book Now (button)

- **Book Now**

- User will view the booking details along with payment method selection.
- User can select payment mode and pay for the same
- User will pay the amount in advance

- **Payment Gateway**

- 3rd Party Payment gateway will be required for the same.

- **My Bookings**

- User will be able to view the ongoing, scheduled, cancelled, and past on the application

- **Ongoing Booking**

- User can view the ongoing booking details with the following details
- Booking #
- Dumpster Details
 - Vehicle no.
 - Colour
 - Size
- Help line number
 - To connect with the admin for support or update on the timeline.
- Date and Time
- Duration
- Amount Paid & Payment Method

- Status (this status will be updated by the admin)
 - On the way
 - Dropped-Off
- Ready for pickup from my location. (This status will be set by the user once their work is done)

- **Scheduled Booking**

- User can view the scheduled booking details with the following details
- Booking #
- Dumpster Details
 - Vehicle no.
 - Colour
 - Size
- Help line number
 - To connect with the admin for support or update on the timeline.
- Date and Time
- Duration
- Amount Paid & Payment Method
- Cancel Booking
 - Cancellation can only be done before the status is set to “on the way”
 - For cancellation user will be asked to enter the reason for cancellation.

- **Past Bookings**

- User can view the past booking details with the following details
- Booking #
- Dumpster Details
 - Vehicle no.
 - Colour
 - Size
- Help line number

- To connect with the admin for support or update on the timeline.
 - Date and Time
 - Duration
 - Amount Paid & Payment Method
- **Cancelled Bookings**
 - User can view the cancelled booking details with the following details
 - Booking #
 - Dumpster Details
 - Vehicle no.
 - Colour
 - Size
 - Help line number
 - To connect with the admin for support or update on the timeline.
 - Date and Time
 - Duration
 - Amount Paid & Payment Method
 - Cancellation Reason
 - Refund Status
 - Refund will be taken care by the admin, only after their approval refund will be initiated.

➤ **Notifications**

- Users will receive push and in app notifications for
 - Booking Reminder
 - Booking Status
 - Refund Status
 - Updates or announcement from the admin.

➤ **My Account**

- Users will be able to View/Edit their account details.

➤ **Settings**

- Following details will appear in settings:
 - Change Password
 - Notification Preferences
 - Static Content
 - FAQ
 - Privacy Policy
 - Terms & Conditions
 - About Us

➤ **Logout**

- Users will be able to logout of the app, after which they will be redirected to the sign in screen.



4.2. Administrator Web Panel

The back end of the platform will be power packed with an administrative panel to manage the updates of data at the application level, website level and as well as back end. Following would be the key functionalities:

➤ Sign In

- Admin will be able to sign to the web panel with the help of Email ID and Password.
- In case admin forgets the password they can recover it using their email ID.

➤ Dashboard

- Following details will appear on the dashboard:-
 - Total Users over the Platform
 - Total Bookings
 - Total Cancellations
 - Total Revenue Generated
- **Sort**
- Admin will have option to sort the dashboard based on:-
 - Today
 - This Week
 - This Month
 - This Year

➤ Users Management

- Admin will be able to manage the User from the backend.
- Admin will be able search the Users profile from the backend.
- Admin will be able to see a list of Users in Grid/Tabular format.
- Admin will be able to see the detailed view of the Users.
- Admin will be able to Edit/Delete the Users.
- Admin will be able to activate/deactivate the account of the Users from the backend.

➤ **Booking Management**

- **Scheduled Bookings**

- Admin can view all the details of scheduled bookings along with the amount and payment method.

- **On Going Booking**

- Admin can view all the details of ongoing bookings along with the amount and payment method.
- Admin will be able to manage the status of the dumpster drop-off from here.
 - On the way
 - Reached

**Admin will send their driver to drop-off and pick up the dumpster from and to the location of user respectively. Driver management will be done offline.

- **Cancelled Bookings**

- Admin can view all the details of the cancelled booking along with reason of cancellation.
- Refund status
 - For cancellations, admin will approve the refund request then the refund will be initiated and the amount will be transferred back to the user's payment method which was used.
 - Once approved the status of the same will be changed on user's app also.

Note:- Stripe connect will be integrated for the automation process of refund amount

- **Past Bookings**

- Admin can view all the details of past bookings along with the amount and payment method.

➤ **Dumpster/Vehicle Management**

- Admin will be able to manage (Add/edit/remove) the Dumpster from the backend.

- Admin will be able to manage the slot availability of the dumpsters from here.

➤ **Transaction Management**

- Admin will be able to see all the transactions done for making the bookings.
- **Sort**
- Admin can sort the transactions based on
 - Today
 - This Week
 - This Month
 - This Year

➤ **Content Management**

- Admin will be able to generate and manage the Content from the backend.
- Admin will be able to manage the static content from the panel.

➤ **Change Password**

- Admin will be able to change their password.

➤ **Push Notification Management**

- Admin will be able to manage the push notification from the backend.
- Admin will be able to send the notifications to the Users.

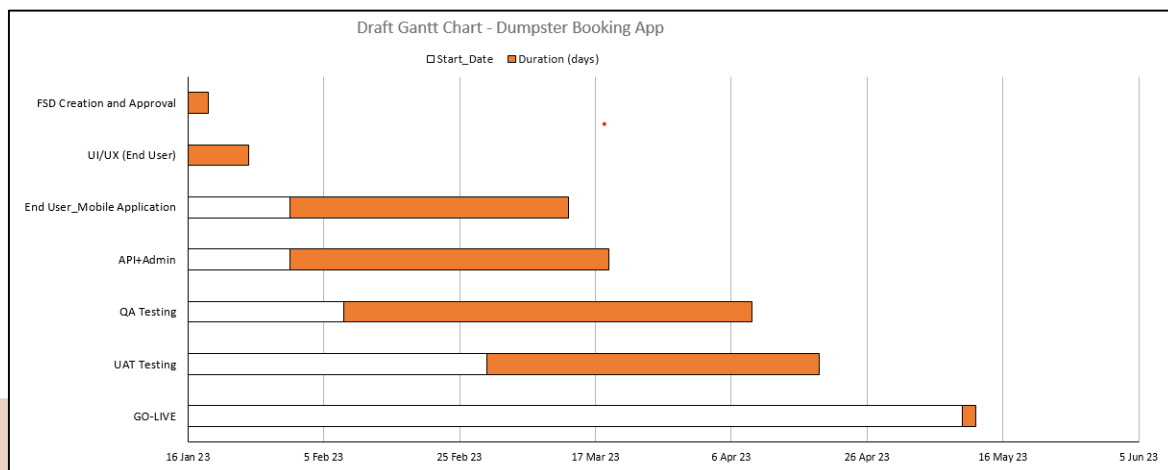
➤ **Logout**

- Admin will be able to logout from the web app, after logout admin will be redirected to the login page.

Note: All the third-party API's that are required in the development would be provided by the client.

5. Draft Delivery Timeline and Gantt chart

Planned Project Start Date	Scheduled Project Completion Date
Project Duration*	89
08-Jan-2024	09-May-2024



*Project Duration would be met with a condition that the client responses are received on time.

6. Project Management

Before Project is awarded			
Business Analysis	Project Management / Software Development	Business Development / Sales	Accounting
1. Project Identify / Analysis	5. Project Evaluation by technical teams	12. Introduction call	19. Invoice submitted to RICK
2. Develop one-page proposal overview	6. Introduction call 1 on 1 interaction with RICK	13. Deliverables discussed with RICK	20. Payment received
3. Create project management overview	7. System appropriate services determined	14. Milestones discussed	21. Payment confirmation sent to RICK
4. RICK assigned to business manager GBM	8. Requirements / System application architecting	15. Project success discussed	22. Account forwarded to PM
<i>GBM: Global Business Manager</i>	9. Project needs analysis	16. Future growth alignment	
	10. Detailed proposal development	17. Detailed proposal provided	
	11. Cost and Time effort estimation	18. Payment instructions	

After Project is awarded			
Phase 1	Phase 2	Phase 3	Phase 4
1. Project manager assigned	6. Design, Development / technical teams assigned	12. Testing / Quality Assurance	16. Periodic project maintenance
2. Project initiation/ introduction call	7. Project start	13. Live server testing	17. Data backups
3. Online project profile created	8. RICK feedback on weekly	14. Final bugs issues fixed	18. Web site – System application upgrades
4. Weekly project meetings scheduled	9. Weekly project feedback session- 30 min	15. Campaign completed	19. On line marketing ** Optional
5. Reporting formats explained to RICK	10. Reports available on-line		
	11. Online Rebel catering access of PM system application		

7. Proposed Team of Project

The proposed team to achieve the deliverables in a time span of 20 Business Weeks comprising of 40 hrs./week is as follows

Designation	Availability
Project Manager	Part Time
Project Expert	Part Time
Designers	Full Time
Developers	Full Time
Quality Analyst	Full Time

IN WITNESS WHEREOF, both parties here have to agree the finalized scope for this project as of the date.

For: Rick

Signature:

For: WebMobril Inc.

Signature:
