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FishBuddy Mobile Application

**User Requirement Specification (URS)**

Project Name: **FishBuddy Mobile Application**

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# Overview Introduction

FishBuddy is a social mobile App and a platform for the users to share their seawater and freshwater fishing experience in the UK community. Plus, get familiar with any useful local information shared by other users. The App provides up to date local rules and regulation, nearest fishing Spots, local tides, and best bait, UK fish breeds, hotels and suppliers. Users will be able to upload their catch and the App shall identify breed with details such as Appearance, habitat, fishing methods, state records and edibility.

The first phase of application will be free to use by any userbut will not contain all the features.

The paid version will have more features and needs to work on a monthly subscription via PayPal.

Future plans are likely to include links from the App to an eCommerce store

**What about QR codes for offers or sign up when at exhibitions/shows.**

The User interface of the Application is through mobile App and web backend administrator to manage the App and view statistics

* Web Portal for
  + Admins (Manage the App)
* Mobile Application for Users
  + IOS
  + Android

# Purpose of this Document

The objective of the User Requirement Specification (URS) document is to describe the business requirements of the FishBuddy mobile App. It describes in detail what the web admin and mobile application shall do and how it shall be expected to perform once development is complete.

Once the URS document has been signed off, FishBuddy management can request new features but these will be treated as extras and quoted for accordingly. The same stands for Venta team who can only claim that the website and mobile application(s) is ready for deployment one all the requirements have been met.

Any variations in the requirement specification described in this document shall be considered as Variation Order (Change Request).

# Scope of this Document

This document states the URS for the FishBuddy system (meaning the Web Admin, Mobile Application for the Fishing community) and shall provide a full picture of the complete project scope.

# General Requirements

The FishBuddy app shall be developed using native Android and IOS development framework. The Mobile application shall support min Android 6.0 marshmallow up to Android OS v8.1 Oreo (up to 3 generations) and iOS 9.0 up to iOS 11.0 (up to 3 generations).

1. The Web admin shall support the following browsers – Mozilla Firefox v39 and above, Google Chrome v45 or higher, Internet Explorer v8.0 or higher plus Microsoft Edge v25 or higher.
2. The mobile app design resolution is 1280 X 800 pixel and higher.
3. Supported language is English only.

The mobile app development and testing, including User Acceptance Test (UAT), shall be based on the devices listed below as benchmark. Other devices not listed below may be supported but shall not be certified as fully compatible.

* + iOS Device series: iPhone 6, iPhone 7, iPhone 8, iPhone X
  + Android Screen sizes: hdpi, xxdpi, xhdpi, xxxhdpi
  + Screen Orientation: Portrait

1. As a common practice, we do not guarantee the mobile app compatibility for devices with rooted Android OS, jailbroken iOS or non-standardized OS customization from device owners or manufacturers.
2. The mobile app will support tablet and iPad devices; however, the screen is not designed for Tablet specifically. Dedicated tablet support will be supported upon request and it may incur extra effort on porting to tablet view port on both iOS and Android operating system.

**How much extra to work on an iPad? Does it then work on other tablets (full screen)?**

1. Venta will assist the client to submit the mobile app to Google Play and Apple App Store, should the client decide to distribute the app through the stores. However, it is subjected to Google Play and Apple App Store’s approval whether the app can be distributed on their marketplace. Venta will provide advice and technical support to maximize the probability for the app to be approved by both marketplaces.

# FishBuddy Mobile App

## Features of FishBuddy Mobile Application

Detailed functionality will be explained in later parts.

* The main features of the App are the following -
  + Sign up/Sign in as FishBuddy user
  + Edit/ Update profile, choose your fishing area, Your preferences
  + Access to local information
  + Follow other users/ View their profile and their wall
  + Upload a catch with details of weight, length and breed(optional for the user)
  + User will have option to identify the breed of their catch through FishBuddy system with general breed information. (Up to 30)
  + Share your catch on your wall
  + User will be able to like/comment and share their post
  + User will be able to Like/Comment and share another user’s post
  + GPS location of User is identified, and system shows information based on the GPS location.
* The features of the Admins are the following -
  + Update any local information such as Fishing Spots, local tides, type of fishes etc.
  + Manage local hotel information and suppliers
  + View User statistics

## Login and Authentication

* When the User launches the app, he shall be presented Login/Sign up Page.
* On the Login/Sign up page, there shall have two text fields for username/email address and password and a “Login” button. In addition to that, there is also a ‘Forgot Your Password’ button and ‘Create Account’ button for the user to register.
* If user provided an invalid Username/email address and Password, the app shall prompt this message: “Invalid Username/email address and Password”.
* There is also “Log in with Facebook” button. This allows the new user to skip registration by using FB authentication via FB API which pulls details from their FB account if user prefers to log in this way.
* If user forgets their credentials, they shall be able to click the ‘Forgot Your Password?’ button and begin the password retrieval process. The user shall be taken to a screen where they will be prompted to input their ID number. The Admin shall be notified of the request upon which they shall email a new temporary password to the registered email address that match with the ID number.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Data Types for Login & Authentication | | | | | | |
| No | Field Name | Field Type | Field Length | Editable | Auto-field | Mandatory |
| 1 | Username/Email Address | Text Field | Varchar (20) | Yes | No | Yes |
| 2 | Password | Text Field | Varchar (15) | Yes | No | Yes |

## Registration

* First time user is required to register before they can access the features in mobile app.
* User shall register by providing the following information –
  + Name (Mandatory)
  + Address (only on paid version)
  + Phone Number (Mandatory)
* Email address (Mandatory)
* Password (Mandatory)
* Confirm Password (Mandatory)
* User will be prompted to select preferences such as favourite fishing area (via GPS)
* Once registered, the user shall also be able to log in with their Facebook account and google account, if these accounts have the same email ID
* User shall have to agree to the Terms & Conditions by ticking the checkbox. If the user does not agree, they cannot proceed with the registration.
* The client has requested the ability to login via Fingerprint ID if available via the user’s mobile device.

## Home/Landing page

* After user successfully login, they shall be directed to the Home/ Landing Page.
* Landing page will display the feed in the page by default
* They shall view the following in landing page with shortcuts in header area, bottom menu and side menu
* Top categories
* Fishing Spots
* Fish breeds
* Hotels (paid version only)
* Suppliers (paid version only)
* Feed
* Map
* Guide
* Log Catch
* Add post
* Activity
* My profile
* Settings
* Notifications
* Logout

### 

### Fishing Spot

* There will be a shortcut icon for the fishing spot
* When the user clicks on the fishing spot, they will be able to view the Google map with map icons for fishing at nearest fishing spot on the map
* When the user clicks on a specific fishing spot, we will display basic information and description about the fishing spot.
* Any user can add a fishing spot
* User shall tag the GPS location
* Report the fishing spot if it’s not accurate)
* Breed of fish found at the fishing spot and type of bait used**\***

\*We need some way to verify the data is correct, maybe a dropdown menu for the user to use, or a suggestion that admin can verify and add later

### Fish Breeds

* When the user navigates through this option, they will be able to
* View the list of Fish breeds
* When user selects specific breed, they will be able to view details of the breed such as appearance, habitat, behavior and edibility etc.
* User can select breeds from a list, but it will only be admins that submit data into the backend

### My FishBuddy Profile

* User shall be able to view and edit their own profile.
* My Profile shall have the following:
* Profile Picture (optional to upload)
* Name
* Country
* Catches
* Followers
* Following
* Catches map
* Preferences
* Follower/following profile when visited
* Profile picture
* Name
* Catches
* Fish bait – user can search types of bait that is used to catch specific fish
* Followers
* Following
* Catches map
* Follow the user
* Un follow the user
* Block the user

### Hotels - Only on the paid version

* When the user navigates through this option, they will be able to
  + View the list of hotels in the local area with GPS location of the hotels
  + When user selects specific hotel, they will be able to view details of the hotel and short description.
  + Initially the admins will populate info, with user being able to suggest later
  + Hotel information that will be captured - 1. Hotel name 2. Hotel location 3. Service Rating 4. feedback/comment from users.

### Suppliers - Only on the paid version

* When the user navigates through this option, they will be able to
  + View the list of suppliers in the local area with GPS location of the suppliers
  + When user selects specific supplier, they will be able to view details of the supplier and short description.
  + Initially, these will be local suppliers to the area, and they will be approved/recommended fishing shops/ fishing tackle suppliers and all set up by the admins.

### Post Feed

* Feed is the list of posts on the user landing page wall
* Display criteria of each post in the feed
  + All the posts and catches recorded by the user
  + All the posts and catches done by other users, followed by user
  + Latest post on the top
  + Latest commented post on the top
  + Latest liked post on the top
  + Promoted posts - These are automatic posts that are created by the admins for highlighting specific features or promotions.
* Functionality of the post in feed
  + Posted by
  + Comments from the posting user
  + Picture/Video (click to view full screen)
  + Likes (on click view likers list)
  + Comments (on click view all comments)
  + Write a comment
  + Share the post

### Map

* User shall be able to view the following –
  + Map view with his current location
  + All the fishing spots nearby
  + All the hotels nearby – paid version only
  + All the suppliers nearby – paid version only

### Guide

* User shall have access to the useful information as guide
  + Useful videos and text
  + The above content is added and managed by the admins

### Log Catch

* User will have option to upload their catch
  + Upload picture/pictures
  + Write comment

**Extra Features AI**

* + System will identify the fish breed through photo recognition (80 -90% accuracy)
  + Fish breed information such as Appearance, Habitat, behavior and edibility
  + Weight
  + Size
  + GPS tagging of cached location

### Add Post

* New post can be added to the feed by the user by selecting Add post
  + Add Picture/ Video
  + Write comment
  + Other users will have access to like, share and write comment

### Activity

* Activity from the user will have log in the list view.
* Activity by the other users you are following

### Settings

* Profile: User profile can be updated with below details
  + Profile picture
  + Username
  + First name and last name
  + Email Address
  + Change password
* Email settings
* Notification settings (On /Off)
  + New followers
  + Mentioned by another angler
  + Posts from anglers you follow
  + Posts you have commented on
  + Likes

### Notifications

* List of notifications the users will receive
  + Email notifications
* Notification when they register
* Email verification notification
* Notification when follower comments on your post/feed
* Change password notification
  + In App notifications
* Notification when user has a new follower
* Notification when another user likes your post
* Notification when another user comments on your post
* Notification when there is new post from your follower

FishBuddy Mobile APP

USER Login

My Profile

My Preferences

Follow/Un Follow user

Account Settings

Email Notifications

In App notifications

User activity log

Other User profile

Upload catches

Post on your wall

Like a post

Comment the post

Share the post

Delete the post

User Feed

Fishing Spots info

Local tides info

GPS Location & maps

Nearest suppliers info

User Guide with information and videos

Nearest Hotels Info

Fish breed info

Fish breed identification

# Fishing Buddy Administrators features

## Managing Fishing Spots

### Fishing Spots promoted by admins

* Admins can create a new Local fishing spot
* Admins can add information and details about the fishing spot.
* Admins can add pictures.
* Admins can tag location
* Admins can tag/add fish breeds available at the fishing Spots.
* Auto notifications will be sent to users geographically close to that fishing site.

### Local Spots created by User

* Admins shall view details submitted by the user for Approval
* Admins can edit the information and details before approval
* Admins can view/add any pictures
* Admins can verify and tag location of the local site.
* Once the Local fishing site is approved, notifications will be sent to users geographically close to the local site.

## Managing Fish Breeds

### Fishing breeds added by Admins

* Admin can create a new fish breed – data fields TBC\*
* Admin can add necessary details about the fish
* Before publishing the new breed Venta team to add the new breed to database by creating a provision to be able to identify the breed and details through AI.
* Admin to be able to edit details and add pictures of the breed.
* Admin to be able to tag the breed to one or more fishing Spots.

### Fishing breeds suggested by users

* User will be able to suggest a fish breed and submit details about the fish - see 2.2.1
* Admin will view the details submitted by user and approve the breed.
* Before publishing Venta team will update the new breed to DB and create provision to be able to identify the breed and details though AI.
* Admin will be able to edit details and add pictures of the breed.
* Admin will be able to tag the breed to one or more fishing Spots.

## Managing Hotels

### Hotels promoted by Admins

* Admin will be able to create a new hotel
* Admin will be able to add details and pictures of the hotel
* Admin will be able to tag the hotel with nearest fishing Spots
* Admin will be able to add the GPS location of the hotel

### Hotels suggested by user Not required. They can suggest to admin though, maybe we can have something on the app that says “suggest suppliers” same for the Suppliers

## Managing Suppliers

### Suppliers promoted by admins

* Admin will be able to create a new supplier
* Admin will be able to add details and pictures of the suppliers.
* Admin will be able to tag the supplier with nearest fishing site
* Admin will be able to tag the GPS location of the supplier.

### Suppliers added by the user Not required. They can suggest to admin though, maybe we can have something on the app that says “suggest suppliers” same for the Hotels

## User Management

* Admins will be able to view all the registered users
* Admins can add/edit/delete any registered user
* Admins will be able to view user details, user activity and location details
* Map view of user trends

## Statistics and reports

* Admins will be able to view all the user trends based on location, activity etc.
* Admins will be able to view the fishing Spots report based location and activity.
* Admins will be able to view Hotel report based on location and activity
* Admins will be able view the fish breed reports
* Admins will be able to view supplier report, based on location and activity.