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Requirement Understanding Document- Flight Permit Tracking System

Prepared for:

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Table of Contents

I.0	Functional Requirements:.....	3
I.1	Client (Operator / Pilot) Module:.....	3
I.2	Back End /Admin Module:.....	5
I.3	Operation staff Module:	7

1.0 Functional Requirements:

IJET specializes in providing regulatory authorizations and ground support services to aircraft operators around the world. IJET has unfailingly provided premier, tailored international trip-planning flight support services and has managed the flights effectively and efficiently.

IJET approached Verbanet Technologies LLC., trading as Verbat Technologies (hereafter referred as “Verbat”) to develop a Flight Permit Tracking System. The features of the application are mentioned below:

The major modules of the application are:

- Client (Operator / Pilot) Module
- Back End / Admin Module
- Operation staff Module

The features and functionalities of each module are described below in details:

1.1 Client (Operator / Pilot) Module:

Approved Operator or Pilot will use the system to raise the permit requests, pay for the services provided and receive updates on the permit status. The features and functionalities of this module are:

- Register/ Login: Operator or Pilot can register to the system by filling up registration form, once the form is submitted, admin can approve it and an email link will be sent to complete the registration and set the password which will be used to log in.
- Add / delete Operators & Aircrafts which will be used during the flight creation process.
- Create New Flight
 - Select or add following data:
 - ✓ Operator
 - ✓ Aircraft
 - Aircraft Registration
 - Aircraft type

- Minimum Take-Off Weight (MTOW)
 - Call Sign etc.
- ✓ Flight
 - Flight Number
 - Departure Airport
 - Date of Departure
 - Estimated Time to Departure (ETD)
 - Arrival Airport
 - Date of Arrival
 - Estimated Time to Arrival (ETA) etc.
- Select Route (overflight, takeoff and landing Countries) manually or using one of the routes which has been received via third party Flight Planner System: Flight planner system will offer options for the best routes available from the Start point to the Destination with following details:
 - ✓ Countries (Over flight)
 - ✓ Airports (Landing)
 - ✓ Permit notes (Based on the type of operation)
 - ✓ Applying requirements and AIPs
- Request for Flight Permit : Flight permits are permits or permission required by an aircraft to overfly, land or make a technical stop in any country's airspace.

Note: The system will always check if any valid permit is requested to alert the operator accordingly to avoid taking unnecessary permit.
- Choose Local Agent service (Suggestions or mandatory): User can prefer Local agent for each country based on following details:
 - ✓ Faster than CAA
 - ✓ Less Requirements
 - ✓ Higher rating and review by other users
 - ✓ Cost
- Pay fees: Operators / Pilots can pay via third party payment gateway as a subscription fees (User Wallet), Subscription will have different packages based on:

- Number of aircrafts
- Number of user accounts
- Number of international flights
- Receive Permit: Permit will be sent by email and can be shown in the system with the following details:
 - Permit Number
 - Validity
 - Copy of Permit in case it is hard copy
 - Copy AFTN Message
- List Old Flights
- Revise / Reschedule flight
- Rating and Reviews: Operator can
 - Rate Agents and view agents' rating
 - Write/ view Agent review
 - Write / view Country review

1.2 Back End /Admin Module:

The main objective of the backend module is to automate the permit requests process.

Once the request is submitted by Operator / Pilot, the system will communicate to the different CAA on each country based on the method defined in the system to get the required permit.

The different methods to get the flight permissions are:

- Email (Predefined Email template for send / receive)
- Web Forum (RPA)
- AFTN (Predefined Email template for send / receive)
- ARINC (Predefined Email template for send / receive)
- Local Agents (Predefined Email template for send / receive)
- CAA Systems (API)
- Manual (out of the system like phone call, face to face, etc..)

Admin is the user who will manage the backend system. The features and functionalities of this module are:

- Login: Admin can login to the system with a predefined user name and password
- Users management: Admin can approve Registered User (Operator or Pilot)
- Master Data Management of: Airports, Aircrafts, Countries, permit methods, Permit requirements, Local Agents
- Pay for Agents (Release payment / Payment status update)

Payment will be paid out from the system as follows:

- Service provided by CAA: Payment will be done automatically using API (status updates)
- Service provided by Local Agent: Agent will be paid by the system automatically using payment gateway to local agent's account or by bank wire transfer (in every week, two weeks or month)
- Update permit status (when automation is not applicable)
- Create Email templates and link them with country and method to revert back.
- Reports: Create reports based on
 - Date
 - User
 - Operator
 - Agent
 - Country
 - CAA
 - Permit Method
 - Permit Type
 - Wallet transactions
 - Flight status

Note: All reports can be exported as PDF files.


1.3 Operation staff Module:

The main objective of the operation staff module is to allow IJET operation team to take a manual action(s) against specific in completed permit requests. The features and functionalities of this module are:

- Login: Operation staff can login to the system with a predefined user name and password.
- Requests dashboard: To show the delayed permits requests.
- Issue permit: Using this feature, operation team can issue the required permit and change the request status by entering the required information and save them in the system.

We look forward to hearing from you soon and hope that you will give us the privilege to work with you in meeting your business goals.

Thank you.

A graphic consisting of a dark red square with a diagonal line from the top-left to the bottom-right. The text "We Engineer your Digital Success" is centered within the square. "We Engineer your" is in a light red, sans-serif font, and "Digital Success" is in a bold, white, sans-serif font. To the right of the square is a thin, vertical dark red line.

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Thank You

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