

# Request for Proposals (RFP)

COIS 3030 FALL 2020

RFP closing date and time:  
4 October 2020 23:59:59 EST

Flight Sharing System

## Flight Sharing System

*In recent years, there has been several success stories of service sharing applications. Examples of such stories is Uber, a ride-sharing application which allows car owners to use their privately-owned cars as taxis; and Airbnb, which allows anyone to share their apartment/house with strangers who are willing to pay. Inspired by these successful sharing applications, FutureAir wants to introduce a flight sharing system. The system will allow anyone who owns a private airplane to charge passengers who want to use their airplane for travelling.*

*FutureAir wants to develop a website and a mobile app (runs on both Android and IOS) that allow a passenger to create an account, verify their identity by uploading their travel documents, search for available flights to their chosen destinations, and book their flights. The user should be able to choose the number of seats they need, enter each traveler's information, time of departure, and their preferred time of arrival. Based on this information, the system will show the available planes, available seats in each plane and their prices. If the user wants to select a particular plane, the system will prompt the user to pay using a credit/debit card.*

*The system should also allow the plane owner to list their plane for a trip. The owner should create an owner account, and then enter the specifications for their plane into the system. When the owner decides to share the plane for a particular trip, they have to enter number of seats available and the trip info, i.e. the departure and arrival airports, whether it is a connecting flight, the type service provided in the plane (e.g. meals, shower, bed, movies and entertainment). The plane owner can choose to take multiple stops and pick up/drop off passengers in multiple airports. The owner should be able to share photos of the airplane and testimonials of previous customers to attract customers. The system should also allow the passenger to rate the trip they took and write a review.*

*FutureAir also wants to open field offices in major cities. They plan to hire agents who will help the passengers and plane owners if they need any help. The agent should be able to book or cancel bookings on behalf of the passenger, and to list the airplane for sharing on behalf of the plane owner. In addition, the agent can use the system to schedule plane inspections, maintenance, manage the crew and catering if the plane owner chooses FutureAir to provide those services.*

*FutureAir wants to apply highest standards of security and privacy measures to protect their customers. The system should prompt the user to enter their password after 1 minute of being idle. In addition, the integrity and the privacy of their information should be protected at all time. The systems should also maintain a very short response rate, passengers should receive search results for available planes within 30 seconds, and plane owners should be able to list their planes within 2 minutes. The system should generate weekly reports about sales to the plane owners. The product also should share passenger information with immigration and border control authorities. Immigration officers should be able to use the product to verify bookings when admitting a passengers in and out of the country. FutureAir want the product and running by February 2021. The budget available for this project is \$20 Million Canadian Dollars.*

The new system should be up and running by February 2021.

The budget available for developing the system is 20 million Canadian dollars.

**Summary of required functionality:**

- 1- The system must allow client to log in using username and password.
- 2- The system must allow the client to create an account.
- 3- The system must allow a client to search for available planes.
- 4- The system must be able to process client payment for a particular flight.
- 5- The system must allow ta plane owner to list their plane.
- 6-The systems must allow plane owner to create an account.
- 7- The system must allow the plane owner to share their plane for a particular trip.
- 8-The system must allow the client to write reviews about their flight experience.
- 9- The system must allow the plane owner to share reviews of their planes.
- 10- The system must share immigration and passport papers with relevant authorities.
- 11- The system should send notifications to client of possible planes on their preferred destinations.
- 12-The system must allow a client to cancel a booking with/without paying a fine.
- 13-The system must allow the plane owner to specify a cancellation fine.