\*\*info we are cutting out of assignment 1 and/or saving to add into assignments 2 and 3\*\*

***Notes from meeting:***

**Business event examples:**

* **Any interaction between the adjacent system and work. Time triggered events also show up in the context diagrams.**
  + **Look at the icebreaker example in the textbook/Class notes**

**Stakeholders:**

* **Lil explanation (short)**
* **Enough that the grader knows what we’re talking about**
* **Bullet Points are enough for the constraints**
  + **Mention exactly from the text in the case study**

**Midterm and final - no generic answers - Something similar to the assignment**

**Risks:**

**Read the text and see what you think are the risks.**

**Take it straight from the case study**

**Literally take things from the text**

* **There are things given by stakeholder**
* **Think about some things that the client/stakeholder did not think about**

**Risks of delivering the project**

**Do not include non-functional requirements! - Such as the “other” section we have**

Business Events

input

output

Flight Share

* ~~Private airplanes can charge people to use their planes for travelling~~
  + ~~Can list plane for trip in app~~
* ~~Open field offices and hire agents~~
  + ~~Job of agents: book/cancel bookings for passengers, list planes for owners~~
* ~~System can schedule plane inspections, maintenance, manage crew + catering~~

Website + Mobile App

*For customer*

* Create account to book
* ~~Verify identity by uploading travel documents~~
* ~~Search available flights, book flights~~
  + Include time of departure and anticipated time of arrival
  + ~~Choose number of seats and each passenger’s info~~
* ~~Show available planes, seats, and prices~~
* ~~Can leave reviews about other plane owners’ trips~~

*For plane owners*

* Create account to list plane
* ~~Share plane for trip~~
  + ~~Number seats available, destination~~
* ~~Can choose to make multiple airport stops on way to final destination as well as pick up/drop off passengers~~
* Share photos of plane

Security

* ~~Enter password after 1 idle minute of being on website/app~~
* Search results after 30 seconds for available planes (listing time: non-functional requirement)
* List planes without two minutes (listing time: non-functional requirement)
  + Clear, concise, easy to do
* ~~Weekly reports about sales to the owners of planes~~
* ~~Share passenger info with immigration and border control~~
  + ~~Verify bookings in/out of country, international~~
* Budget: 20 million CAD (not necessary to add into context diagram)

**Non-functional risks**

People/Security

**1.**

**Risk:** Lack of Background checks and screening passenger luggage

**Probability:** Low.

**Effect: Serious.** Lack of background checks can lead to unwanted persons gaining entry into the country. Screening passenger belongings is necessary to deter and prevent the transportation of illegal or unwanted substances.

Other

**1.**

**Risk:** Smuggling of drugs or other illegal material.

**Probability:** High.

**Effect:** Serious. If security is not tight enough, it may become easier for people to bring illegal substances over borders or during international flights.

**2.**

**Risk:** Human trafficking.

**Probability:** Moderate.

**Effect:** Catastrophic. Private planes and flights may lead to more illegal activity and make it easier for people to transport victims of human trafficking.

**1.**

**Risk:** Poor plane maintenance.

**Probability:** Low.

**Effect:** Catastrophic. Effects of poor maintenance can lead to plane malfunctions during flight and result in a crash.

**3.**

**Risk:** Maintenance/inspection reports not up to date.

**Probability:** Low.

**Effect:** Serious. Sued/fined for sending off planes that do not have proper paperwork done.

**Client Interview Questions**

1. What happens if there are scheduling conflicts for hangar space for commercial airlines at the airports?
2. What happens if a booked plane does not have updated maintenance reports?
3. What type of screening process or background checks will plane owners go through to ensure the safety of all passengers utilizing the aircraft?
4. Are there any associations or groups of people that FutureAir will be affiliated with that may affect domestic or international travel?
5. How does FutureAir ideally plan on allocating the $20 million budget?
6. Are there any other requirements that are required at this time?
7. Are there any other requirements outside of the document you have provided for us. Eg. outside stakeholders, etc.
8. How do you plan on marketing your product?

Order :

Hey, How are you doing today?

We good thanks for asking

So, I hope you read our Feasibility Report and based on the business use cases we developed, we will ask you a few questions on that.

1. How does FutureAir ideally plan on allocating the $20 million budget?

Databases, security, software

1. What happens if there are scheduling conflicts for hangar space for commercial airlines at the airports?

Flight would be cancelled.

Airports should have a space private specific for us to avoid any conflicts

1. What happens if a booked plane does not have updated maintenance reports?

Customers should be notified

Initial report should be done before it is visible to the customers

1. What type of screening process or background checks will plane owners go through to ensure the safety of all passengers utilizing the aircraft?

* confirmation of the plane by maintenance engineers
* Only verified ownership

1. Are there any other requirements outside of the document you have provided for us. Eg. outside stakeholders, etc?

Caterers, flight attendants - can be chosen by flight owner or also future air can provide them in case owner does not want to choose on their own

1. Are there any associations or groups of people that FutureAir will be affiliated with that may affect domestic or international travel?

International travel

Yes future air will receive backlash (for example - uber) -- this is beneficial for plane owners to make extra money via their plane. Plus all the staff will get paid so good for them

1. So, now how do you plan on marketing your product?

Insta. Snap, fb, blahs - social media

1. Are there any other requirements that are required at this time?

Weekly reports of the plane owners :

Profit, expenses, all the people that took the plane, departure (everything that pertains to the flight itself), connecting flight or direct travel

Maintenance reports are for the plane owners.

Agents and immigration officers have an account too.

Reviews : Yelp kinda - add comments, add rating, these are added on the plane owners reports, plane owners can choose what review they want to choose to keep on their testimonials.

Finally, would you like to add any comments?

Most secure standard security possible, because it should be. Strongest security system instead of applying a standard.

Plane owner can choose what fuel company they want to

COIS 3030 Assignment II.

Due date: November 8, 2020.

Flight Sharing System.

Deliverables:

1) Cost analysis: (5 marks)

a) Draw a data model.

b) Use function points to estimate the cost. You will be graded on how you use the function points method, not on the correctness of your cost estimation.

2. Business Use Case Scenarios: (8 marks)

a) Write the business use case scenario for each business use case.

b) For each business use case, use UML activity diagram to highlight its main activities.

3. Interviewing the client (2 marks): Your group is responsible for interviewing the client. Each interview will last roughly about 30 minutes. The interviews will be conducted over the next 2 weeks. If you want to do the interview next week, you have to email the TA and schedule a time. I will provide you with more information about the meeting during class tomorrow.

Every member of the group should attend the meeting. During the meeting you have to ask questions that will help you to write the business use case scenarios (deliverable#2). The interview should help you in writing the scenarios. You will be graded partly on your ability to ask questions. Therefore, it is important that you prepare the questions before you come to the meeting. To help you prepare the questions, start working on the business use cases before you come to the meeting (The TA won’t look at your business use case scenarios during the meeting, he will just answer your questions).

Questions

What should the data model focus on? Classes and attributes similar to first assignment, or is it supposed to be different?

For Assignment 1, we had around 19 business use cases, are we required to draw out 19 UML diagrams?

A lot of our business use cases (stakeholders for example) are repetitive, is this okay?

**TO DO**

* Activity diagrams for each use case
  + Complete diagrams and then copy + paste each into document underneath respective BUC
* Data model (copy paste from first assignment?)
* Format document

ASSIGNMENT 3

Functional Requirements

*Input*

1. Weather station provides weather details.
2. Airport provides hangar space for planes.
3. Field office agents provide assistance with plane listings, bookings, and cancellations.
4. Technicians and engineers complete inspections and reports.
5. Authorities verify booking with the system.
6. Fuel company provides fuel for all planes.
7. Passengers upload travel documents to verify identity.
8. Plane owners upload documents to verify identity.
9. Plane owners list their plane with the specifications of the aircraft.
10. Passengers use the system to search available flights.

*Output*

1. Technicians and engineers hired for maintenance or inspections of the planes.
2. Passenger information is shared with authorities for international flights.
3. Passengers view the available flights along with the number of seats on the plane and the price of the flight.

*Time triggered*

1. Passengers use the system to leave reviews and rate trips.
2. Plane owners decide whether the flight will take multiple stops to drop off and pick up passengers on the way to the destination.
3. System prompts passengers to re-enter their password after one idle minute on the application or website.
4. Plane owners receive weekly sales reports.
5. System prompts plane owners to re-enter their password after one idle minute on the application or website.

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A3

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Questions to ask/email:

Priorities assigned to users: how do we categorize passengers? Are we looking at this in terms of reviews on a plane/plane owner or reviews about the system or both? Who are the unimportant users?

What is the difference between the scope of the project, work and product?

The data dictionary - this includes a data dictionary FOR the data model, like what we mean by planes, passenger, what these classes represent and even attributes? (is this how it is different from Naming Conventions?)

What does the “ideas for solutions” include? Ideas of solutions for problems/risks?

Business use cases? All???? Like ALLLL??

Do we need to create a product use case diagram and scenario for each?

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QUESTIONS ROUND 2

How much of the snow cards do we actually need to fill out? Do we make up the customer satisfaction/dissatisfaction?

* Conflicts in functional requirements are only between those functional requirements, same for non-functional. They don’t generally overlap
* Values used to prioritize snowcard
* High customer satisfaction: low dissatisfaction, prioritize that snowcard over others when we give to developer
* Low satisfaction = low priority

For the meeting: is all we’re doing explaining the requirements to the developer?

* Explain in language the developer will understand

If we think of more stakeholders (for example) in this stage, should we add them? If we had something missing from a previous assignment and do not add it into this one, will we continue to get marks off for that missing item?

* Won't lose marks if we don’t add BUC, but we need to add to stuff pertaining to what we are marked on

How many relevant facts and assumptions do we need?

* Discussion with proof? No benchmark for grading these assumptions we write

Product use case diagrams: do we need to show visuals and arrows for each PUC?

* Draw actors from draw.io
* PUC diagram -> there is a box, inside that ellipses for pucs, actors have lines associated with each PUC - each step is interaction between the actor and PUC. It is not same as BUC. **Show interaction - from user point of view**