0774 OOAD

Homework #1 – Due Beginning of class

1 How is analysis different than design and vice-versa?

- •Analysis simply involves understanding of the situation or the problem you wish to solve. No detail planning is involved other than quick sketching of ideas. Design on the other hand does involve planning, identifying some key elements you wish to solve, gathering requirements and detail analysis.

2 Imagine you are designing a Blockbuster-type movie rental service.

2.1 Write a list (at least 6) of features from a customer perspective.

- Online Account Management
- Streaming Service from all device(s)
- Overnight Delivery Service
- No Late Fee on Returns
- Wide Selection (TV Shows, Movies, Foreign and Independent, Kids)
- DVR
- Social Media Network Share (Twitter, FB etc.)
- Share with Friends and Family Feature

2.2 Write a list (at least 3) of features from a employee perspective.

- Online Account Management
- Quick Response Time with Easy Resolution
- Trial and Initial Beta Tester

2.3 Write a list (at least 3) of features from a IT/server backend perspective.

- Reliable Servers/Network
- 24/7 Technical Support
- Network of Available Resources (Network Specialist, Server Specialists etc.)

2.4 Prioritize the items in the lists you wrote above from most important to "extras". By "most important" what do you mean? (For example: if you wrote 15 features from 2.1-3 above, then rank the 15 in order of importance)

1. Reliable Servers/Network

2. Wide Selection (TV Shows, Movies, Foreign and Independent, Kids)

3. Network of Available Resources (Network Specialist, Server Specialists etc.)

4. 24/7 Technical Support

5. Online Account Management

6. Quick Response Time with Easy Resolution

7. Online Account Management

8. Streaming Service from all device(s)

9. Overnight Delivery Service

10. No Late Fee on Returns

11. DVR

12. Social Media Network Share (Twitter, FB etc.)

13. Share with Friends and Family Feature

2.5 Using 2.4 above, why did you choose to rank it that way?

- I ranked *Reliable Servers/Network* as one of THE most important feature because everything else becomes irrelevant and secondary when you can't deliver the service as promised. You could have the best content, features and customers service but when you can't accomplish the basic foundation of online service, your customers wont be able to rely on your product.

2.6 In the lists of features, if you were implementing the feature, add an estimated time of completion.

- Applying the iterative approach, I would estimate approximately 12 weeks for public beta trial and 12 months until public launch. Each iterative phase will focus on fixing any known bugs while delivering new features. This will allow you to get constant feedback on already existing features all while consider any new feedback and suggestions.

2.7 Say you had 6 weeks to finish, what is feasible?

- 6 weeks to finish this project would not be possible.

3 In 2.1 above, write some use cases. Write some that are informal summaries. Choose one and write that as formal.

- Use Case: Subscriber sits down and turns on the TV to watch what's available on your Streaming Service. Easy navigation allows him to pick the movie according to his preference and since his profile is also connected to social media, he can be recommended with some of the movies that his friends may have liked.

- Use Case: Subscriber is on the phone with his friend and decides to watch a movie together. He'll have an option to start the movie at the same time as his friend(s) and get to share the movie.

- User Case: While at work, the subscriber over hears his co-workers discussing about a newly released movie. Although he enjoys streaming movie service, he prefers to watch all the movies in his newly built theater room using the BDVD. He goes online and requests to have the movie delivered to his home.

4. What is "wrong" with the design of the current ATM? Provide a list and explanations.

- Physically going to the ATM

- Security (Identity Theft and Physical Danger)

- Physical card dependencies