



CSE471

System Analysis and Design

Assignment : 03

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Assignment 03

No-01

Questionnaire	Joint Application Development (JAD)
Questionnaires are often used to gather information about the as-is system, as well as general information about improvements.	Joint Application Development is used for as-is system, identifying improvements on developing the to-be system.
Questionnaires can provide a medium depth of information, eliciting both facts and opinions with little understanding of why.	JAD sessions are very helpful at providing a good depth of rich and detailed information and helping the analyst to understand the reasons behind them.
It is easily capable of eliciting a wide range of information from a large number of information sources.	JAD sessions are in the middle ^{in case of breadth of info.} because many information sources are brought together at the same time.

(2)

Questionnaires	Joint Application Development (JAD)
Integration of information for Questionnaires is low because combining this information and attempting to resolve differences in opinions or facts is has usually quite complex and it is done afterwards.	Integration of information for JAD is high because JAD sessions are designed to improve integration because all information is integrated when it is collected, not afterwards.
User involvement is low as it places the least burden on users.	User involvement is high as JAD sessions require greatest efforts.
It is ^{overall} a low cost technique despite the fact that	It is a low-medium cost technique.

No. 02Walton Food Freshness checking App For Refrigerators

Functional Requirements:

Process Oriented:

- (i) Users can register at this app using a unique user id provided by Walton and a password set by the user.
- (ii) Users will be able to add food items and allocate them in the app in a convenient way in such a UX/UI based system which will let them feel like they are storing their food in a virtual refrigerator.
- (iii) This system will also allow them to remove any items which they have finished or got rotten so they remove it from refrigerator.

Information oriented:

- (i) This app must contain the information of each foods like, The day it got added to the system, estimated time to last, Recommended time to finish etc.
- (ii) The app should contain the history of previously added food items of at least 6 months and using that statistics, they should be able to provide better results.
- (iii) The app should provide real time update.
- (iv) The app must provide notifications about a food at least 3 days before the recommended time to finish & 5 days before the estimated time to last.

Non functional Requirements:

Operational:

- (i) The system should have support for all mobile app platforms, i.e, Android, iOS etc.
- (ii) It should support the latest version of ~~Android~~ Android, iOS operating system etc.
- (iii) Extreme cold temperature shouldn't be a problem for receiving proper update from the system.
- (iv) There can be a discussion forum for users.
- (v) The firmware should be good enough.

Performance

- (i) Users should have the scope to ~~use~~ control using voice and other gestures etc.
- (ii) Information update should be more convenient than usual.
- (iii) Any interaction between user and the system should not exceed 2 seconds.

Security:

- (i) If the users don't want to send usage statistics and other data, then, no unnecessary data wouldn't be sent to the server.
- (ii) In the discussion forum, any user can only see the basic information of other users. Only administration can ~~check~~ have the access to the ^{information} ~~permitted~~ by the user for sharing.
- (iii) This system should include all available safe guards from viruses, worms, Trojan horses etc.

Cultural policy

- (i) Personal information should be protected as per company's law based on Government law.
- (ii) If Walton won't to distribute this app to be used for other refrigerator manufacturers, they will only make their premium features only if, it has been used on the refrigerators manufactured by them.

NO.03

BRACU Lost And Found App

Functional Requirements

Process Oriented

- (i) Students will have the scope to register in this app using their Google Account. They will also have to provide their official Name and ID.
- (ii) This app must have the facility to search using keywords and also using filter of different categories.
- (iii) Students will have the scope to add info about any lost items they found.
- (iv) Students will have the scope to post anything in a section with necessary details to find their lost items.

Information orientated

(i) The system must contain information about a thing at least until it has been returned to its owner.

(ii) The system should have history of returned items at least for one (1) year for safety purpose.

(iii) The system should include real time update.

Nonfunctional Requirements:

Operational:

(i) The system should have version both for Android & iOS. GRACU Mobile App only has the Android version despite the fact that many GRACU students use iPhone and so they can't use this app.

(ii) Alongside with this no (i) of Operational, this system should have the support for latest version of Android & iOS.

Performance:

(i) Any interaction between the user and the system should not exceed 1 second.

(ii) This system should support at least support, 300~500 simultaneous users in peak time, i.e, 12.00 PM, ~~2.00 PM~~ 2.00 PM, 5.00 PM.

Security

- (i) Only ~~at~~ BRACU administration can see the personal records of students.
- (ii) Students will only be able to see the basic information of other students, i.e., Name, department etc.
- (iii) This system ^{should} include all available safe guards from virus, worms, Trojans etc.

Cultural policy

- (i) personal information is protected in compliance with Government's and BRACU's own policy.
- (ii) ^{As per} University Policy, ~~is~~ administration decision for maintaining this system will be taken based on the discussion with IT department of BRACU.