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USER ANALYSIS AND REQUIREMENT IN THE DESIGN OF HOLIDAY/TOUR WEB APPLICATION THAT RUNS ON TABLET PHONE

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Abstract

A user analysis to outline the requirement in the design of holidays and tour web business application to guide novice programmers on how to simply achieve a smooth human-computer interaction in designing a travel app that could be used on Tablet phone. The Tablets could be more portable and non eye stressing tool for elderly. The use of persona and scenarios and hierarchical task analysis were conducted in order to test the effectiveness and functionality of the device. Implication have been identified that takes into account the interests and trip constraints of the users and how to match it to database of locations in order to display the targeted personal interest of the users, but the major trade-off can either be network failure or the device itself.

Keywords: User, Analysis, Requirement, Design, Holiday/Tour, Web Application

Introduction:

The analysis and the outlined requirements of this web business application interface named Holidays/tour-gate app which is abbreviated as "htourgate" is aimed to guide our young novice programmers on the basic requirements needed to be considered while designing such an application and some other related applications. This application is design to make travel services more suitable to every user that may intend to use the app. An analysis was made to ensure that the app was accessible and utilize by a wide number of users from different personalities most especially elderly users who can equally use the app for them to found it much easier to use. Thus, the app will runs on tablet phone so as to be user-friendly, easily accessible and reliable in order to promote efficient travel services. There will be a database that runs as a mobile app on users' tablet, which holds the same details as the website about the flight, and hotels etc. This will prompt the users to select their desired destinations. The database synchronizes itself with a website from the tablet once connected to the network and ensures that every stakeholder has current details. The app will also provide a group blog of events and comment about their experiences. Photos can be uploaded to meet the needed requirement of users to enable them make a variety of choices as desired in order to be served efficiently, viable and attracted by the interface. This app database is the plan of overall trip according to budget and route preferences of tourist which will give more competitive advantages and make them satisfied with the travel culture. (Preece 2015)

The relevance of the device to the application

The device is relevant and suitable for the application where the user can simply get what he wants as provided from the application on the device which is in-line with smooth human-computer interaction criteria that is maintained in designing and using the travel app on the tablet, being portable and having a bit widescreen that enables users' accesses everything from the resources without hindrance because of it easier intractability. (Patrizia 2014)

Analysis of the device in terms of user types and classes

The tourists may all want to use the app to book for their flight such as travel agencies, company, group or single individual, be it first class, business class or economy class in their respective tablets to search for their desired travel destinations, by firstly searching for 'htourgate' and tab on it. The app will display the list of available services rendered to travellers such as choices of travel location, flight and hotels. Different prices were made

available based on where the user wants to visit from the available resources. A user can directly have access to the diverse resources from the app, which is linked to the database to enable the app to fetch data from the database to the user's satisfaction by providing details automatically. The mobile tablet app that considers the interests and trip constraints of the users are matching those to a database of locations in order to get them their desired interests. Optimized the generated plan in planning algorithm to provides the suggestion of a trip for a requested budget of the customer, the critical shortest route providing the navigation with information support toward reaching desired places that can be access through collaborating the database to Google API which assists in tracking location and reports the correct feedback to the users in order to make them highly satisfied with the system running on the app.

Analysis of the device in terms of personas and scenarios

The context in this tablet app is what is known to be deliverable rather than navigating to make choices by requests. Instead of navigating app where a user must enter their location, they just make a selection for their desires from a dropdown list, where the details have been lodge in the database to match what they want, contextually the app will determine the user's location preferences, hotels depending on city user chose and other aspects of the user's context, hands the information and service out automatically. Various users can use it at home, office, business places, in-fact anywhere by just a simple search by typing for 'htourgate' and tab to make a selection of the link named as "htourgate.com". After selecting it will take the user to the home page. Then they can sign up by registering the client detail. After registering, A user can Login by entering a username and the password and press the submit button. The app interface will be displayed. Users can view all services that are to be rendered through the app. then select and make a choice for a service of your choice and submit. The app will send the signal to the domain server in order to schedule the required necessities of the tour. In case a user forgot his password. I forget my username or password tab will be created to send the user a verification code through a mobile number or email registered with before prompting the user to change username or password.

Analysis of device in terms of tasks

Tablet device handled app very often and efficient, it has been one of the best effective human computers interaction device being portable unlike laptop and desktop computers and the screen is legibly seen and operated without strain. It is evidence that with the above-

mentioned preferences over the whole report indicates the potentiality of "htourgate" tablet app that takes to consider the interests and trip constraints of the users and how to match it to a database of locations in order to display the targeted personal interest of the users. The design of this new app has changed, and it is no more only for a practical, or usable design tool, or just an application but rather something that has inside about emotional aspect of user experience.(Patrizia 2014).

Conclusion:

Tablet has been an effective gadget that enables a proper human-computer interaction being portable unlike laptop and desktop computers and the screen is legibly seen and operated without strain. It is evidence that the above preferences indicate the potentials of the app "htourgate" which runs on tablet that takes into account the interests and trip constraint of the users and how to match it to database of locations in order to display the targeted personal choices of the users, but the major trade-off can either be network failure or the device itself i.e the tablet, may at some point might not get the preferred places by the latest newly introduced address locator database called Google API which assists in tracking location and reports the correct feedback to the tourists until when refreshed. The elderly people also suffer the technological gap that keep them distance from their own grandchildren for which their status is also been addressed. (Patrizia 2014).

Appendix

Type of User who would use the application:

The types of users are as follows

First class – higher travel class are typically more comfortable and expensive.

Business class – are class of passengers that expect travelling with their business pairs.

Economy class – this can be all walks of life i.e travel with family, friends or as individual.

Users type may also include: Travel Agencies, Company, group or single individual user(s) whom should go through the services rendered to assist those who were not opportune to either operate or be in possession of the tablet. Those users can sign up for holidays/tour app, register the person (s) by accessing the services rendered by the app and used them appropriately to book a flight for one another.

Personas:

- Jummai Hassan, Nigerian, age 63, has worked as a teacher for 35 years, her hobbies are reading and cooking, tends to fly to visit her children at school abroad to Dubai, has been very conversant with computer as part of her researching tool.

- Abdulrahman Muhammad, Nigerian, lecturer, age 61 years, has worked in teaching career for 25 years, works hard, his hobbies are reading and travelling, tends to fly for conference abroad to London, has used a computer as part of his job for years.

- George Michael, Britain, worked as accountant, age 62, Retired, hobbies like comic books and watching wrestling, tends to fly for holiday from Aberdeen to America, has used a computer as part of his job for years. Has been social media addict. Frank (2009).

- Maryam Sule, Nigerian, age 53, has worked as a teacher for 23years, her hobbies are driving and cooking, tends to fly to visit her sister abroad to Saudi, she has been very conversant with Smartphone as a suitable gadget for her researches.

Scenarios:

- Jummai Hassan, Nigerian, age 63, has worked as a teacher for 35 years, her hobbies are reading and cooking variety of food, tends to fly to visit children at school abroad, has been very conversant with computer as part of her research tool. She used the app on her tablet to cater for all she needs about her journey by booking her economy flight British Airway and hotels to travel abroad to Dubai.

- Abdulrahman Muhammad, Nigerian, lecturer, age 61, has worked in teaching career for 25 years, works hard, tends to fly for conference abroad, has used a computer as part of his job for years. He used the app to book his flight as usual by registering himself through filling all the necessary details and made a choice for first class Egypt airline to London.

- George Michael, Britain, worked as accountant, age 62, Retired, hobbies like comic books and watching wrestling, he has been a Manchester united club fan, tends to fly for holiday from Aberdeen to America, he has been using computer as part of his job for years. Also has been a social media addict. He used the app to book for his flight by registering and fill all the necessary details and made a choice for business class FlyBe airline to America.

- Maryam Sule, Nigerian, age 53, has worked as a teacher for 23 years, her hobbies are driving and cooking variety of delicacies, tends to fly to visit a sister abroad, has been very conversant with Smartphone as the use for her research. She used the app on her tablet to book for all she needs about her journey by booking her first class flight with Saidi Airline without hotel because she is going to stay in her sisters apartment at saudi. Nigel B (2018).

Hierarchical task analysis:

1. Open the web browser

1.2. Search for the app name "htourgate.com"

2. Download the app from online application store on to the Tablet

3. Sign up by registering the user in producing details about the tourist

3.1. Set username and password

3.2. Login by entering username and the password and press the submit button.

3.3. Display Home page

4. Access the app to determine your desired location through different option as dropdown list

4.1. Book your flight

4.2. Specify departure date and arrival (for two way if any)

4.3. Choose your payment type (mobile transfer, Bank draft, credit card)

4.4. Confirm your payment detail

4.5 Confirm departure date and time

5. The app will then send the signal to the domain server in order to schedule the required trip.

5.1. Receive an online ticket to present at airport

6. Book for hotel (optional)

6.1. Hotel type

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6.2. Payment type (mobile transfer, Bank draft, credit card)

6.3. Confirm payment

6.4. Receive hotel name, room number and where to collect key. Nigel B. (2018)

Implications:

Tablet has been an effective human computer interaction being portable unlike laptop and desktop computers and the screen is legibly seen and operated without strain. It is evidence that the above indicates the potential of "htour.com" tablet app that takes suitability into account. considering the interests and trip constraints of the users and how to match it to database of locations in order to display the targeted personal interest of the users, but the major trade-off can either be network failure or the device itself i.e the Tablet, and maybe the preferred places are not gotten by the Google map and Google Street- view and report wrong feedback to the tourists.

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