Heroes of Aldaria

COMP2361 Mobile Application Development report

Marketplace appropriate description:

Your actions will change the world! Will you save it from destruction and usher in a new age of prosperity or will you be the key to its demise.

Heroes of Aldaria is a modern take on the classic “choose your own adventure” books incorporating elements of modern RPG games such as character inventories, quests, stats, world roaming and much more, all the tips your fingers.

Start as a simple adventurer in the town of Bowersville and end up a figure of legend. Depending on your choices you can become archmage of the entire universe, kill gods and take their place, become a master merchant and buy you very own kingdom and much more

Your action will not be the only ones shaping the future of Aldaria, using geo-location technology Heroes of Aldaria dynamically alters your story in meaningful ways based on the stories of those around you to ensure experience with every playtrough. Someone killed the king, throwing the kingdom into disarray, in his story? Use this opportunity to go down in history as the one to set everything right.

• Play your own unique story that evolves based on your real world location  
• Influence the stories of your friends and neighbors   
• Explore up to 4 locations with unique quests and characters   
• Accomplish mighty feats and gather trophy’s as rewards  
• Explore an epic narrative with hundreds of choices that affect the outcome

Design rationale

Integration of RPG elements

Adding RPG elements such as stats, equipment an inventory etc. adds complexity on what was in its original state a simple chose your own adventure game. This complexity translates into displaying this information in a manner that the users can understand. The elements have been separated into separate screens to keep information clutter to a minimum and the screens were made to resemble traditional RPG interfaces or interfaces in other mobile applications ass to be instantly recognizable to the user

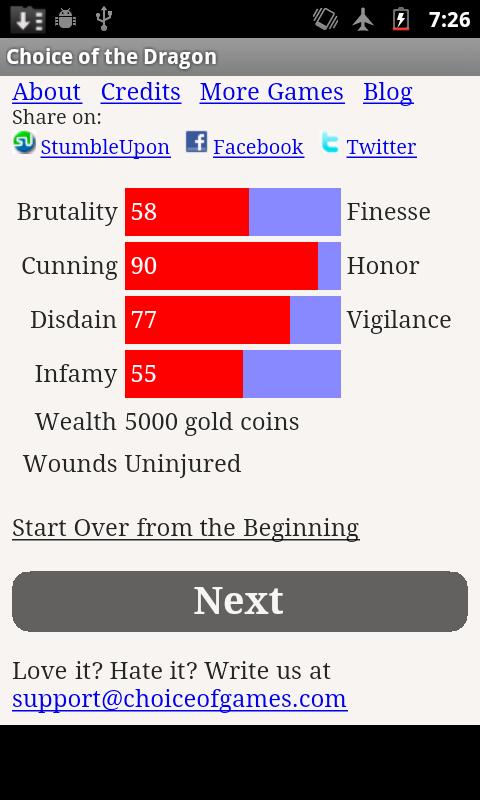
Map screen



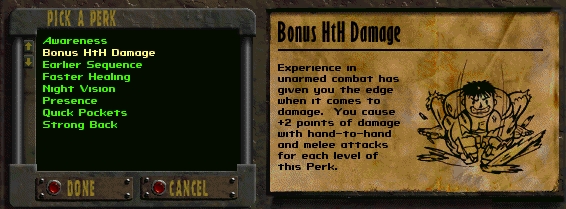
Inventory



Stats screen



Trophies screen

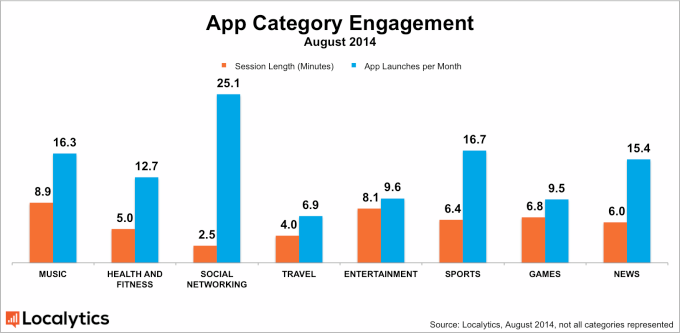


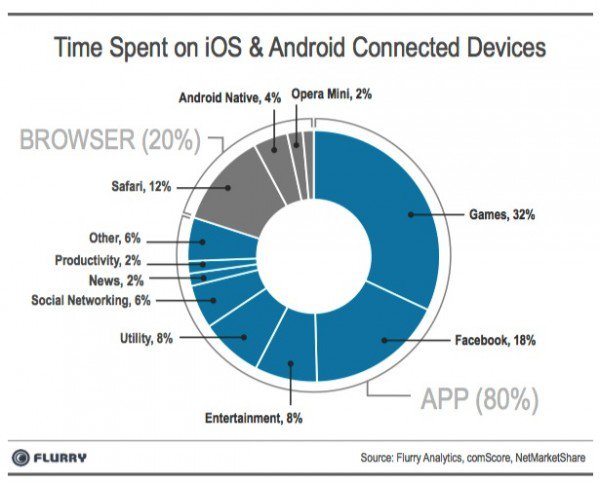
Interface navigation design

Interface navigation within the app must be easy and intuitive. The application presents 5 screens all containing information that the user will require or want to reference when he is using the application. Because of this, navigation from screen to screen must be quick intuitive and easy to use. Buttons were considered in the early phases of design but they were scrapped in favour of a more direct touch-based navigation model. By eliminating buttons for navigation, more screen space was freed to better present the pages content and the touch navigation allows for a more intuitive and direct manipulation of content by the users. Great care was given to ensure that the gestures conform to well established interaction that the user already is familiar with as to make the learning curve as easy as possible. Swiping was selected as the primary navigation gesture and the screens were laid out in a “+” pattern with the four auxiliary information screens surrounding the main screen. The application launches in the main screen as to keep navigation ergonomic and any transitions are done via swiping in the direction of the desired screen. By using a spatial projection for the menus the application takes a step back from abstractions and achieves a more natural feel by resembling real-world interactions (the inspiration for navigation was the way utilize physical maps).

Use habit limitations

One major factor to consider when designing the user interface is the use habits of possible users. On average, mobile phone applications are used frequently and for short time frames.



As a result the interface must be fast and easy to use and the interaction themselves should be responsive and provide minimal delay. This has translated into the design by having each screen immediately identifiable. All user relevant information is displayed in such a way as to maximize the use of available screen space by not cluttering the interface with useless features that might distract the user’s attention. A relevant example is the story screen used in this app which, being the screen in which the user will spend most of his time, presents him with the story text and available choices and nothing more. The interface is also designed with a static structure that all story content must adapt to: exactly 4 choices and a recommended story description length of XXX characters. While at first it may seem to be a limitation of the available screen space or of the implementation (as theoretically the user could scroll down the page if the is more content is present than can be displayed on one screen or the content could be scaled down as to fit the screen), it is in fact a conscious design decision made to enforce an easy to memorize structure for the user. This is done to prevent the following situations: a) the user neglecting to scroll and thus not seeing all the choices he can make, b) the user having difficulties reading the story and choices due to text size or accidently selecting an undesired choice due to limited accuracy of touchscreens , c) the user having to spend most of his time reading large amounts of text, thus limiting the amount of time in his already short use session that he spends actively interacting with the app (making choices).Furthermore, because the application uses a server to get story updates based on his geolocation, server delay and server messages must be taken into account. Rather than interrupting the user session to update every time an important story event happens in his geographical vicinity, the application contact the server every time the user opens up or resumes the application to get the relevant updates. This way the user only has to wait at the begging of the session and then can enjoy his story in one continuous uninterrupted go. When considering the use patterns of mobile devices, this ensures that the story will be updated frequently (something which is desired as it is one of the main features of the app) while minimizing negative impact on user experience. One application that handles server information in a similar and non-intrusive way is the Facebook app whose usage accounts for 18% of total time spent on IOS and Android devices while connected. The application tries to connect to the server on start-up or resume and does not interrupt users, going instead for a non-intrusive notification system.

Development process

Data storage and implementation of the geo-location feature / use server - .txt files

Usability testing and “Wizard of Oz” / fake server and storage

Web technology limitations and workarounds – reading files , ajax, jquery, savestates

References http://globalmoxie.com/jhc/prez/teach-touch-bdconf.pdf