72 Angles

Requirements and Estimates

This document covers the requirements and estimates for the mobile application “72 Angels”.

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## Objective

The mobile application “72 Angels” will assist users in holistic healing through the 72 Angels. The application will provide functionality to query through the angels based off of different tokens, including but not limited to: qualities, calendar info, human distortions, and daily situations. A widget can also be placed on the home screen, displaying the current angel based on date and time, which, if clicked, will open up the app and display the current angel’s profile. The application will be for iOS, Android, Windows, and BlackBerry mobile users.

## Client Requirements

|  |  |
| --- | --- |
| Client Specifications | Comments |
| Angels Full Profile/Bio | Individual profile page.  Includes:   * Angel Number * Qualities * Distortions * Situations and Common Problems * Calendars and Residence * Audio file for pronunciation |
| Angels Profile List | List 72 angels in numerical order.  List is scrollable, and clicking on a name opens the full profile page of the angel.  Sorted based off of Angel’s number |
| Calculation Engine and Calendar | User inputs birth date and time (optional) to display their Angel. |
| Find your Angel | Found via input of day, month, year, hour, and minute of user’s birth.  Three angels will come up: Physical, Emotional, Intellectual |
| Language Selection | English, French, German |
| Menu Page | Access to all functions and settings |
| News Page | RSS style feed of information  Data fetched online |
| Reining Angel of the Moment | Notification of the Reining Angel of the Moment  Clicking on the notification will open the angel’s profile page. |
| Settings Page | Settings include:   * Turn notifications on/off * Meditation Reminder * Change default language |
| Shake for Random Angel | Random selection of Angel from shaking device. |
| Share your Angel | Share the angel on Twitter and Facebook |
| Working with Angels | Explanation on how to work.  Splash Screen |

## Analysis

Although shaking the device to bring up a random angel is great, it may cause frustration in the user as accidentally dropping or moving the device will cause them to lose their place and instead have a random angel presented to them. Instead, perhaps on the “Angel List” page, an icon can be placed to randomly select an Angel. It is also recommended that a “search” capability be added to the “Angel List” page. This will allow for users to easily find an angel they’re looking for, rather than having to scroll to search for it every time they open the app.

## Target Users

The application is to target people of all ages, genders, and work profiles.

## Non-Functional Requirements

#### 5.1 Security

All purchases that are made in the app will be done through app stores. For Android this will be the Google Play Store, iOS the App Store, Windows the App Store, and BlackBerry through BlackBerry World. For this reason, no encryption will be required as no personal information will be entered in the app.

#### 5.2 Performance

When the application is opened, it will operate in real-time. This means, that when a user performs an action, the action will be immediately executed, as it is only processing one action at a time. There will be a 0% loss of information transferred when querying the database. As long as the user has background tasks and notifications enabled, the notification for the Reining Angel of the Moment and their Meditation Reminder will work. The information regarding the Angels will be stored locally in a relational database. Media files that will be purchased by the user after downloading the app will not be stored locally, and will therefore require an internet connection to download.

#### 5.3 Scalability

The app for Android may be expanded to work on wearable devices, such as the Android Wear. Because the information on the Angels provided is static, it will be hard coded into the application.

#### 5.4 Internationalization

The default language of the application will be set when first opening it. The available languages are English, German and French.

#### 5.5 Orientation

The app will rotate and adjust to the orientation of the device. The layout will be the same when the orientation is changed, meaning that the visible components will remain the same regardless of the orientation.

## Functional Requirements

### Application Brief

The application will be provided for iOS, Android, Blackberry, and Windows Phone users. If it is being opened for the first time, it will prompt with the option of the app being in English, French, or German. It will then provide the user with an introduction to the Angels, in the language of the user’s choosing. The home screen will then be presented, from where the user can choose to see a list of all the Angels, find the Angel associated with their birthday, see the Reining Angel of the Moment, shake for a random Angel, access their audio library, access a news page, and change their settings.

Since the data provided is static, it will be hard-coded into the database and a content manager will not be provided. This, of course, does not relate to the RSS feed style news page, as that will acquire its data online. The look and feel of the application will be as “zen” as possible, with the main theme color being “sky-blue.” However, since a specific design has not been provided, the client will accept the layout designed by the developers.

### Application flow (Wireframes and Use Cases)

### Splash Screen

The introduction will be presented to users opening the application for the first time. The user will be able to select for the application to either be in English, French, or German, and the corresponding introduction text will be presented. A “Proceed” button will be displayed in the bottom right corner that will allow the user to proceed to the home screen.

### Home Screen

The home screen will have a sky-blue header with the name of the app. On the right hand side of the header will be a gear representing the “settings” page. The other pages the user can navigate to will be listed underneath the header, namely: “List of Angels,” “Find Your Angel,” “Reining Angel of the Moment,” “Audio Library,” and “News Page.” Clicking on each will navigate to the corresponding page. Each list item will also have an arrow aligned to the right margin.

### List of Angels

There will be a sky blue header with the text “Select an Angel to open its profile.” Underneath the header will be the list of Angels, sorted by their corresponding number ranging from 1-72. Each list item will also have an arrow pointing to the left aligned to the right margin. Selecting an Angel from the list will redirect to that Angel’s profile page. Choosing to go “back” from this page will lead back to the home screen.

### Angel Profile

A sky blue header will display the Angel’s name. The Angel’s information will be displayed with “two line items.” In other words, the label will be above the information, with slightly bolder text. Items such as the “qualities” and “human distortions” will be listed with bullet points. The order of the items will be:

1. Number Name
2. Qualities
3. Human Distortions
4. Situations and Common Problems
5. Calendars and Residence
   1. Physical
   2. Emotional
   3. Intellectual
   4. Residence
6. Play pronunciation

Going “back” from this page will go back to wherever the user came from. At the bottom of the profile page will be links to book chapters, related audio tracks, and a small speaker icon to play the pronunciation of the Angel.

### Find Your Angel

On this page, a calendar will be placed in the upper portion. It will allow the user to select their date of birth. Underneath will be a textbox to enter their time of birth. At the very bottom will be a button to submit the form, titled “Find your Angel.” The user’s Angel profile will then open. Selecting to go back from this page will lead back to the “Find Your Angel” page.

### Settings

The settings page will have two settings with sliders that can be switched on or off, and one setting, the language of the application, which can be changed by clicking on it. One is “notifications,” which turns on or off the notification for the Reining Angel of the Moment. The other setting is for a meditation reminder, which can be switched on or off. Underneath the meditation reminder, indented to the left a little bit, will be displayed the frequency of the reminder and it’s time. The user can choose to edit the time and frequency of the reminder. Underneath that is the language option. The user can select this, opening a list of languages they can choose from. From the start, the only languages available will be English, French and German. Choosing to go “back” from this page will go back to the home screen.

### Audio Library

Here, the user may listen to audio tracks from: Angelica Musica, Angelica Meditation, Angelica Mantra, and Audio Lectures. The page will have two tabs, one titled “Library” which will display to them the tracks they have already purchased. A swipe will take them to the next tab, “Store,” where they can choose to purchase single tracks or complete packs. Purchasing them will be handled through app stores, where the user will be redirected after selecting to purchase a track or pack.

### News

The news page will display to the user news articles retrieved from the UCM website ([www.ucm.ca](http://www.ucm.ca)) in the form of a RSS feed. The language of the articles will depend on the language chosen by the user.

### Compatibility

The operating systems and their corresponding version are listed in the table below:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Platforms\OS | iOS | Android | Windows Phone | Blackberry |
| Version | 7 | 4.0 - Ice Cream Sandwich | 7.5 |  |

## Project Estimates

The estimates presented in this section are rough estimates portraying the maximum amount of time it will take us to complete the applications.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Features\Platforms | iOS | Android | Windows Phone 7 | Blackberry |
| Pages | 10 | 5 | 5 | 10 |
| Database Connection | 3 | 2 | 2 | 2 |
| UI | 5 | 4 | 4 | 5 |
| Media Library | 10 | 7 | 7 | 10 |
| Testing | 1 | 1 | 1 | 1 |
| Deployment | 2 | 1 | 2 | 2 |
| Total | 31 | 20 | 21 | 30 |
| Cummulative Total |  |  |  | 102 |

1. All numbers are in Person Days (4 hours/day).

### Overheads to Development Estimates

The following chart displays the possible overheads associated with the development of this project. They are rough estimates and will vary of course.

|  |  |
| --- | --- |
| Project Management – managing the team, fixing version-control errors. | 5% |
| Communication – communication between the team and the client. | 5% |
| QA – testing for usability, performance, functionality. User testing and surveying. | 5% |
| Business Analysis – requirement gathering and documentation. | 7% |
| Learning curve – learning iOS mobile development and Blackberry mobile development. | 15% |
| Total | 37% |

### Complete Effort Estimates

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Platforms 🡪 | iOS | Android | Windows Phone 7 | Blackberry |
| Total | 42 | 27 | 29 | 42 |
| Cumulative |  |  |  | 143 |

2. All numbers are in Person Days(4 hours/day)