**Project Estimation for Obsequy**

## Overview

This software development estimation is divided into two parts, the MVP (minimum viable product) release and the GA (general availability) release (1.0). For this project, the MVP will be a very limited version of the GA due to the very tight timeline. Compared to the GA, the MVP will support most of the same pages and operate within the same spirit of the intended full featured application.

Note that this quote is for a website viewable on a desktop or tablet. A mobile specific platform will not be supported at this time; however, the site will be useable on mobile devices with a web browser. If a mobile solution is desired, that would need to be factored in.

## Technologies Used / Supported

This will be built with Microsoft Single Page technology utilizing Web API on the server-side, and will be constructed using JavaScript, HTML5, and Twitter’s Bootstrap framework (or similar) on the client-side. Utilizing this mix of technology allows the application (as well as all future revisions) to be viewable on all modern web browsers which support HML5. There are no restrictions when viewing this application on mobile devices, and does not require installation of platform specific plugins such as Flash and Silverlight.

By utilizing the Bootstrap technology, future revisions beyond the scope of the GA can be styled specifically for mobile and tablet devices without changing the underlying software architecture.

Supported web browsers are:

* Google Chrome
* Firefox
* Safari
* Internet Explorer version 10

This project will be hosted on the Windows Azure Cloud Services platform. All hosting costs, email, and SMS costs are recurring monthly costs for which Obsequy is solely responsible for.

## Estimating Time and Cost

Synchronicity draws upon its vast experience developing web applications for supply-demand solutions. The estimates include design, development, testing, and refinement. Additionally, hosting setup and configuration are included in the cost.

**MVP Release**

The MVP launch date will be scheduled for July 10, 2013.

## Pages

The following pages will be supported in some limited capacity:

|  |  |  |
| --- | --- | --- |
| **Page** | **Access** | **Functionality** |
| *Landing Page* | | |
|  | Unauthorized | Limited. The page will provide all appropriate navigation to other pages. The UI for this page should have more resource devoted to it compared with others to make a good impression, but only as time permits. |
| *How It Works: Families* | | |
|  | Unauthorized | Limited. The page will provide all functionality and navigation. The page may have some content. |
| *How It Works: Funeral Director* | | |
|  | Unauthorized | Limited. The page will provide all functionality and navigation. The page may have some content. |
| *Support for Families: Dealing with Grief* | | |
|  | Any | Limited. The page will provide all functionality and navigation. The page may have some content. |
| *Support for Families: Writing a Eulogy* | | |
|  | Any | Limited. The page will provide all functionality and navigation. The page may have some content. |
| *Support for Families: Writing an Obituary* | | |
|  | Any | Limited. The page will provide all functionality and navigation. The page may have some content. |
| *Support for Families: Q&A Pre-Planning* | | |
|  | Any | Limited. The page will provide all functionality and navigation. The page may have some content. |
| *Family Registration + Arrangements* | | |
|  | Unauthorized + Family | Limited. This page will allow a user to register an account as a family member. The user input validation will also be limited to verifying the email address used is valid and not in use. This page will provide the registration fields necessary to allow a request to be matched with funeral directors. Other fields may be included (such as a second point of contact), time permitting. This page will support continuing the configuration their arrangements if the log out and log back in. |
| *Quotes* | | |
|  | Family | Limited. This page will allow a family member to see all quotes received by the funeral directors. It will also allow them to accept and reject individual quotes. Quotes can be viewed as a list or individually providing more details. The amount of detail to provide to the user is **TBD**. Note that the user can’t modify their request once it has been submitted for this release. |
| *Checklist* | | |
|  | Family | Not Implemented. This page would provide an online “to do” list to help a member organize the tasks they need to do and provide reminders. |
| *Funeral Director Registration + Services Provided* | | |
|  | Unauthorized + Funeral Director | Limited. This page will allow a user to register an account as a funeral director member. The user input validation will also be limited to verifying the email address used is valid and not in use. This page will provide the registration fields necessary to allow the funeral director’s services to be matched with family member requests. Other fields may be included time permitting. This page will support continuing the configuration their settings if the log out and log back in. |
| *Requests* | | |
|  | Funeral Director | Limited. This page will allow a funeral director member to see all incoming service requests. It will allow them the ability to set a quote price or ignore the service request (choose not to bid). Requests can be viewed as a list or individually providing more details. The amount of detail to provide to the user is **TBD**. Note that the user can’t modify their quote once it has been submitted for this release. |
| *User Accounts* | | |
|  | Funeral Director | Not Implemented. This page would provide a funeral director the ability to add, remove, or modify users who can manage the account. |
| *Account Management for Funeral Directors* | | |
|  | Site Administrator | Not Implemented. This page allows the Obsequy site administrator to approve or decline new funeral director accounts. It would also provide the ability to disable or enable existing accounts. |
|  |  |  |

## Email Support

Email notifications will be generated and sent to members for the following events:

* New account registration
* Funeral service quote request submitted (notification sent to both family member and funeral director)
* New quote received from funeral director
* Funeral quote accepted (notification sent to both family member and funeral director)

A professional looking HTML template will be used for all email notifications. A basic template will be designed for the MVP, with a final version styled for the GA. SendGrid will provide all email messaging services.

## SMS (Text) Support

SMS notifications will be generated and sent to members for the following events:

* Funeral service request submitted (funeral director only)
* Funeral service quote received (family member only)
* Funeral service quote accepted (funeral director only)

Twilio will provide all SMS messaging services.

## Deposit Payment Processing Support

Payment processing will not be supported in the MVP. This will be supported in the GA.

## Service Quote Requests

Service quote requests are generated by the family members and are routed to the funeral directors. For the MVP, once the request is submitted, it can’t be modified.

## Service Quotes

Service quotes are submitted by the funeral directors. For the MVP, once the quote is submitted, it can’t be modified.

## Work Estimates

Work estimate hours include design, development, testing. Note that the MVP does not include server side validation.

### Application Framework

This represents project creation/initialization within the development environment, initial database design and deployment, shared document storage, code repository setup/initialization, etc.

|  |  |
| --- | --- |
| **Task** | **Effort in Hours** |
| Project setup/structure | 8 |
| Data Model | 18 |
| **Estimate** | **28 Hours** |

### CRUD Operations (create, read, update and delete) / Services

This represents the business logic/service layer of the application. This is the heart of the application, exposing various services that the UX layer (PC, Tablet, and Smartphone) will access.

|  |  |
| --- | --- |
| **CRUD Operation** | **Effort in Hours** |
| Login / Logout | 6 |
| Family Account | 12 |
| Family Funeral Preferences | 6 |
| Quotes | 14 |
| Checklist | 0 |
| Funeral Director Account | 12 |
| Funeral Services Provided | 6 |
| Requests | 14 |
| User Accounts (for funeral directors) | 6 |
| Account Management (site administrators) | 6 |
| **Estimate** | **82 Hours** |

### Processing Services

This represents the automated processing of requests and quotes after they have been added or modified in the system. These services also handle notification generation via email and SMS.

|  |  |
| --- | --- |
| **Service** | **Effort in Hours** |
| Requests / Quotes | 16 |
| Notifications | 12 |
| Monitoring | 8 |
| Payment Processing | 0 |
| **Estimate** | **36 Hours** |

### UX Development

This represents work on the UX side, construction and styling of the client site.

|  |  |
| --- | --- |
| **Site Element** | **Effort in Hours** |
| Landing Page | 4 |
| How It Works: Families | 1 |
| How It Works: Funeral Director | 1 |
| Support for Families: Dealing with Grief | 1 |
| Support for Families: Writing a Eulogy | 1 |
| Support for Families: Writing an Obituary | 1 |
| Support for Families: Q&A Pre-Planning | 1 |
| Family Registration + Arrangements | 10 |
| Quotes (Family) | 18 |
| Checklist (Family) | 0 |
| Funeral Director Registration + Services Provided | 10 |
| Requests (Funeral Director) | 18 |
| User Accounts (Funeral Director) | 1 |
| Account Management for Funeral Directors | 1 |
| **Estimate** | **68 Hours** |

### Deployment / Administration

This represents project deployment and setup on a hosted environment.

|  |  |
| --- | --- |
| **Task** | **Effort in Hours** |
| Deployment | 16 |
| **Estimate** | **16 Hours** |

|  |  |
| --- | --- |
| **Final estimate** | **230 Hours** |

### Development Timeline and Demonstrations

The following are anticipated demonstrations of progress and review points for the MVP development cycle:

* 1st demonstration + review: approximately mid-June to cover styling and checkout existing functionality.
* 2nd demonstration + review: approximately end of June to review progress and solicit feedback.
* Final demonstration + review: first week of July prior to July 10th deadline.

**GA Release**

The GA launch date will be scheduled for **[LAUNCH DATE]**.

## Pages

All pages will be fully supported and styled according to the agreed upon themes.

## Email Support

Email notifications will be generated and sent to members for the following events:

* New account registration
* Funeral service quote request submitted (notification sent to both family member and funeral director)
* New quote received from funeral director
* Funeral quote accepted (notification sent to both family member and funeral director)

A professional looking HTML template will be used for all email notifications. The final version styled for the GA. SendGrid will provide all email messaging services.

## SMS (Text) Support

SMS notifications will be generated and sent to members for the following events:

* Funeral service request submitted (funeral director only)
* Funeral service quote received (family member only)
* Funeral service quote accepted (funeral director only)

Twilio will provide all SMS messaging services.

## Deposit Payment Processing Support

Payment processing will be fully supported in the GA.

## Service Quote Requests

Service quote requests are generated by the family members and are routed to the funeral directors.

**TBD: Define how the Service Quote Requests will work, what can be done after they have been submitted, etc.**

## Service Quotes

Service quotes are submitted by the funeral directors

**TBD: Define how the Service Quotes will work, what can be done after they have been submitted, etc.**

## Work Estimates

Work estimate hours include design, development, testing. The GA includes server side validation.

### CRUD Operations (create, read, update and delete) / Services

This represents the business logic/service layer of the application. This is the heart of the application, exposing various services that the UX layer (PC, Tablet, and Smartphone) will access.

|  |  |
| --- | --- |
| **CRUD Operation** | **Effort in Hours** |
| Login / Logout | 0 |
| Family Account | 8 |
| Family Funeral Preferences | 12 |
| Quotes | 38 |
| Checklist | 8 |
| Funeral Director Account | 8 |
| Funeral Services Provided | 12 |
| Requests | 38 |
| User Accounts (for funeral directors) | 12 |
| Account Management (site administrators) | 8 |
| **Estimate** | **144 Hours** |

### Processing Services

This represents the automated processing of requests and quotes after they have been added or modified in the system. These services also handle notification generation via email and SMS.

|  |  |
| --- | --- |
| **Service** | **Effort in Hours** |
| Requests / Quotes | 28 |
| Notifications | 8 |
| Monitoring | 12 |
| Payment Processing | 30 |
| Estimate | **78 Hours** |

### UX Development

This represents work on the UX side, construction and styling of the client site.

|  |  |
| --- | --- |
| **Site Element** | **Effort in Hours** |
| Landing Page | 4 |
| How It Works: Families | 2 |
| How It Works: Funeral Director | 2 |
| Support for Families: Dealing with Grief | 2 |
| Support for Families: Writing a Eulogy | 2 |
| Support for Families: Writing an Obituary | 2 |
| Support for Families: Q&A Pre-Planning | 2 |
| Family Registration + Arrangements | 20 |
| Quotes (Family) | 32 |
| Checklist (Family) | 8 |
| Funeral Director Registration + Services Provided | 20 |
| Requests (Funeral Director) | 34 |
| User Accounts (Funeral Director) | 8 |
| Account Management for Funeral Directors | 12 |
| **Estimate** | **150 Hours** |

### Deployment / Administration

This represents project deployment and setup on a hosted environment.

|  |  |
| --- | --- |
| **Task** | **Effort in Hours** |
| Deployment | 16 |
| **Estimate** | **16 Hours** |

|  |  |
| --- | --- |
| **Final estimate** | **388 Hours** |

### Development Timeline and Demonstrations

The following are anticipated demonstrations of progress and review points for the MVP development cycle:

* 1st demonstration + review: **TBD**.
* 2nd demonstration + review: **TBD**.
* Final demonstration + review: **TBD**.

**Overall Schedule and Cost**

The MVP is scheduled for completion on July 10th with 3 scheduled demonstrations and reviews scheduled prior to release. This release will require 230 hours to complete.

The GA is scheduled for completion on **[LAUNCH DATE]** with **[NUMBER OF DEMOS]** scheduled demonstrations and reviews scheduled prior to release. This release will require 388 hours to complete.

The total cost of this project is $46,350, calculated at a rate of $75/hour. The project will **not** exceed this number of hours.