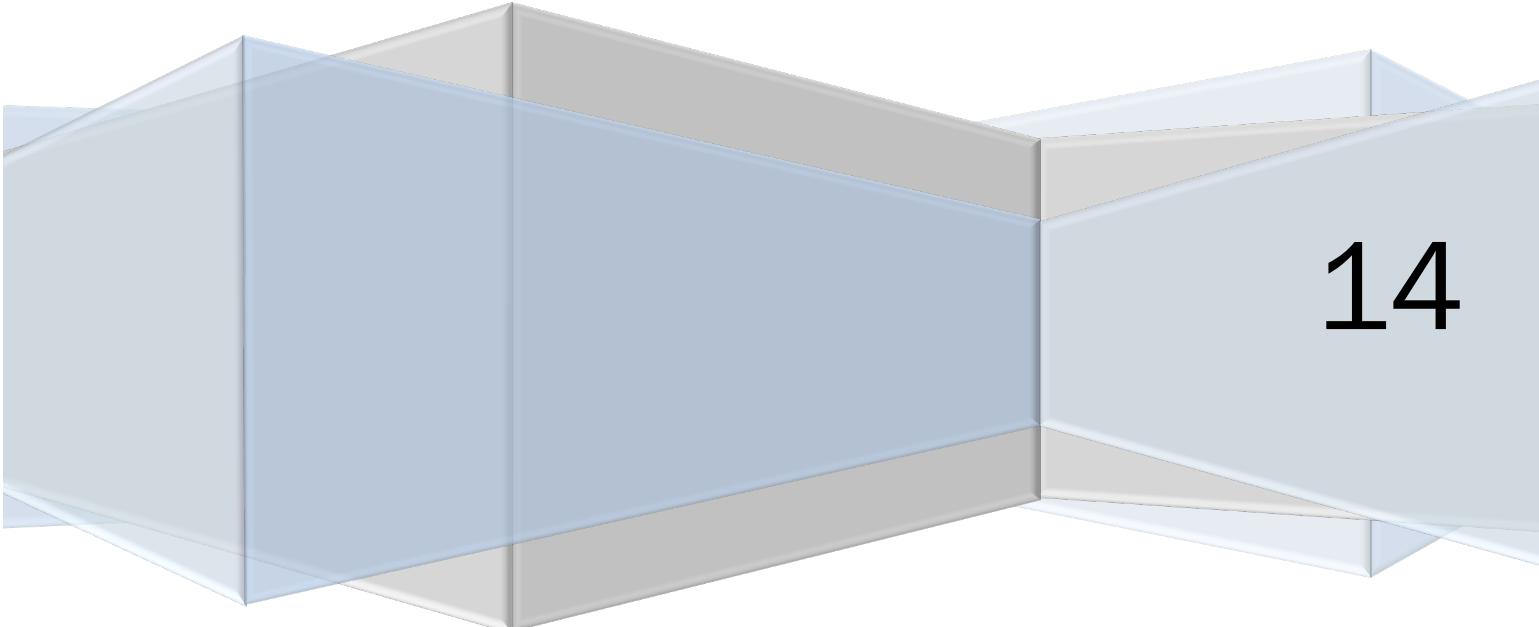


Team 2

# Lake of Humber Woods Hospital

## Requirement Specification Document



14

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## 1. Introduction

This is the requirements specification document for the redesign of the Lake of Humber Woods Hospital website. This document will outline and explain all aspects and activities relating to the redesign of the Lake of Humber Woods Hospital website.

The purpose of this requirement specification document is to provide an outline of the requirements needed by the client [Lake of the Woods District Hospital] in terms of the functionality and usability of the newly redesigned hospital website.

The following activities were conducted:

- Review of the existing website.
- Navigation structure user acceptance testing
- Identification of user personas and anti-personas
- Mobile and responsive design
- Usability Testing

The activities outlined above were conducted to achieve our strategic redesign goals, namely:

1. Create an interactive user experience.
2. Maintain and enhance the standards of Lake of Humber Woods Hospital.
3. Provide an easy to use and user-friendly responsive interface.
4. Improve the in-flow donations by making the ability to donate more accessible on website. This is achieved by making it available on sidebar at every page.

## **2. Rationale and project goals**

The goals of the project are to achieve the requirements specified in project proposal. The rationale behind this website redesign was to meet the following goals:

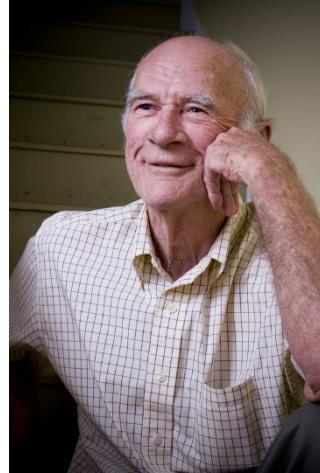
1 - To make the hospital web site responsive

This was accomplished by creating various wireframe designs for the following screen devices: desktop, tablet (in both horizontal and vertical orientation), and mobile.

2 - Generate more revenue for the hospital through donations by making it easier to donate

### 3. Personas

Name - Bob  
Age - 83  
Background - European  
Language - English  
D.O.B – July 1 1931  
Marital Status – Widowed  
Computer Proficiency – Basic  
Browser – IE 10  
Device - Desktop  
Location - rural  
Profession – Miner / Engineer  
Literacy – Grade 6  
Internet Speed – DSL



Name - Rob  
Age - 14  
Background - Canadian  
Language - English  
D.O.B – September 13 1999  
Marital Status – Single  
Computer Proficiency – Advanced  
Browser – Chrome  
Device - Tablet  
Location - rural  
Profession – Student  
Literacy – Grade 9  
Internet Speed – Fiber



Name - Mel  
Age - 35  
Background - Native  
Language - English  
D.O.B – November 5 1979  
Marital Status – Married  
Computer Proficiency – Advanced  
Browser – Fire Fox  
Device - Laptop  
Location - rural  
Profession – Teacher  
Literacy – PHD Internet Speed – Fiber



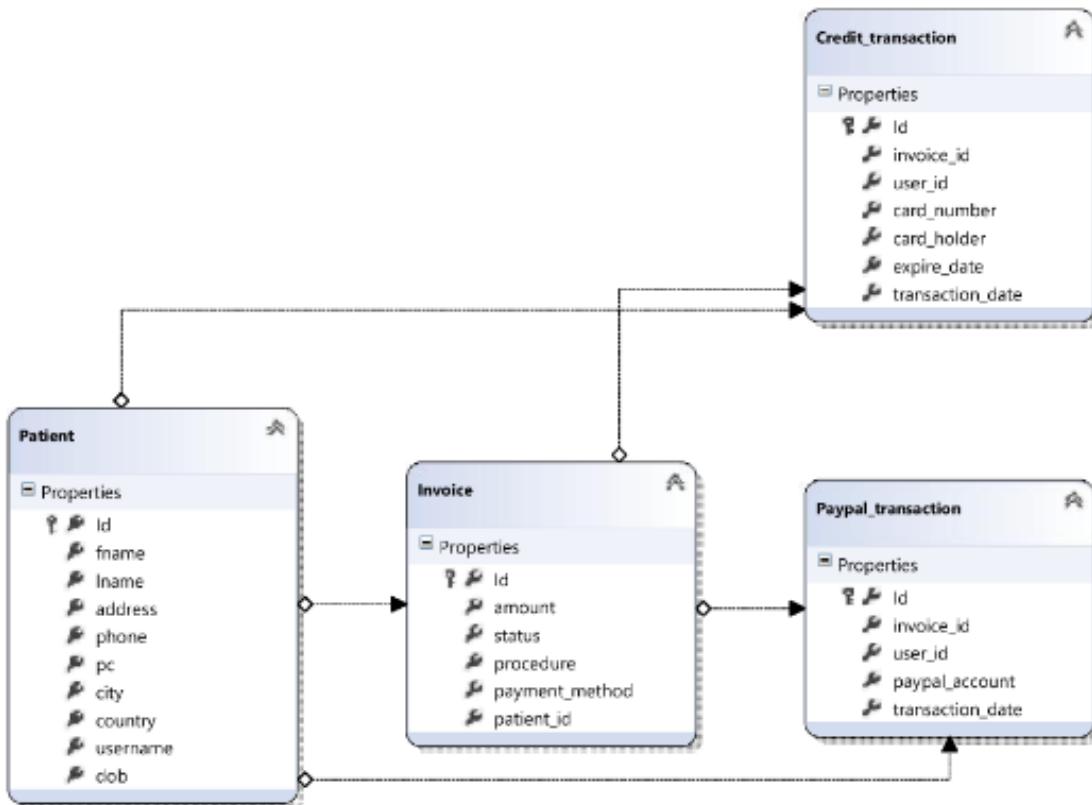
## Anti-Persona

Name - Smith  
Age - 65  
Background - French Canadian  
Language - English  
D.O.B – November 5 1949  
Marital Status – Married  
Computer Proficiency – Poor  
Browser – IE 7  
Device - Desktop  
Location - rural  
Profession – Farmer  
Literacy – High School  
Internet Speed – DSL

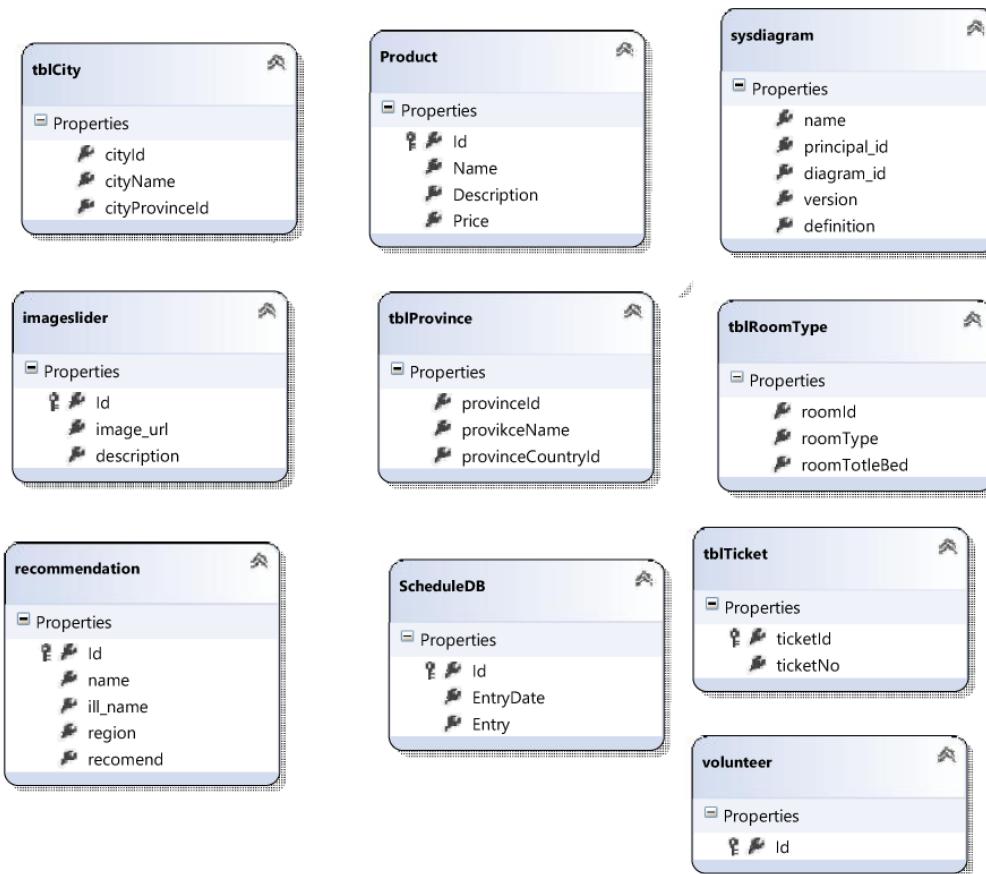


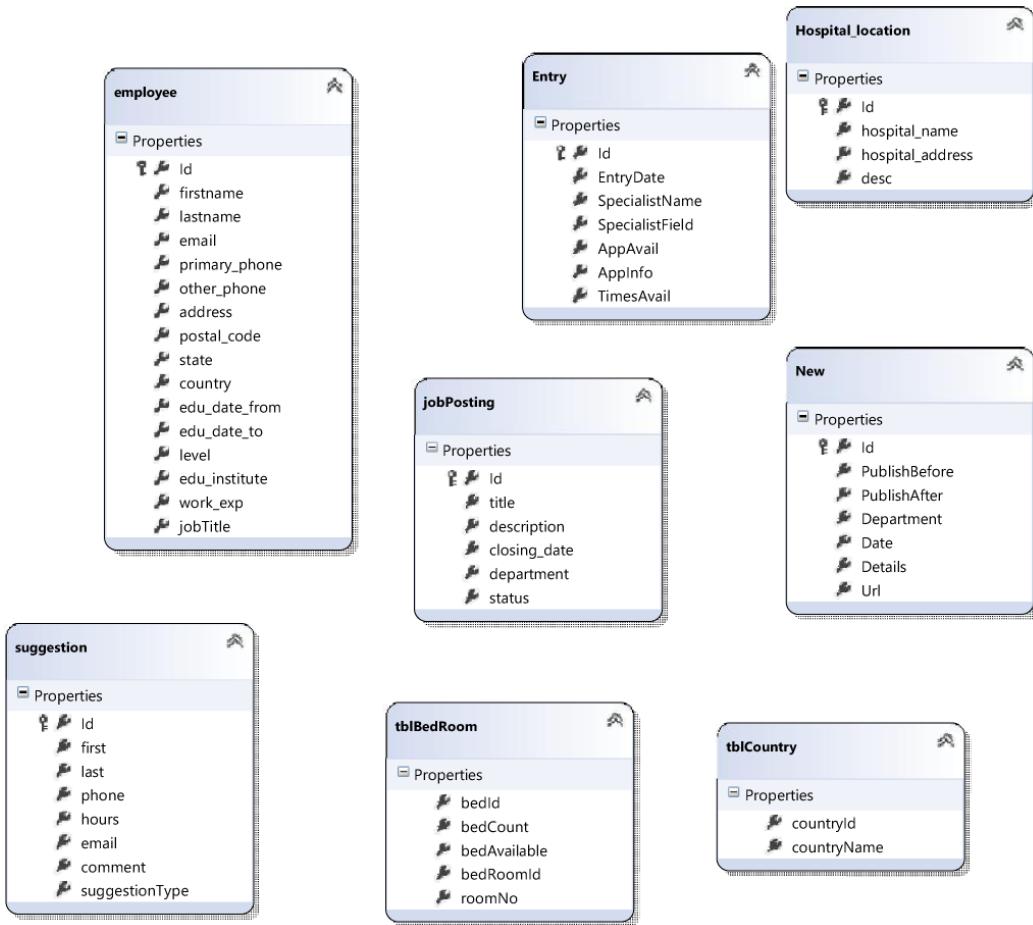
#### 4. Database schema and relations amongst the database tables

The general overview of the database schema is outlined below, for further details on table relations please refer to the sub section databases of section named: Features of this document.





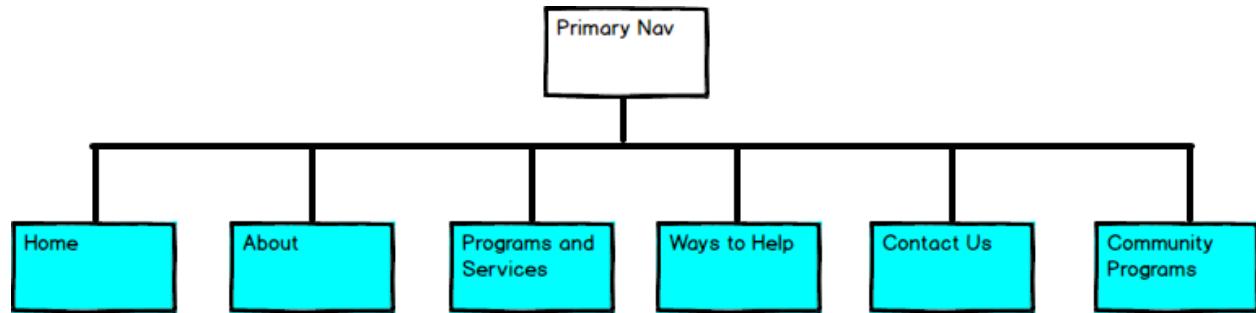




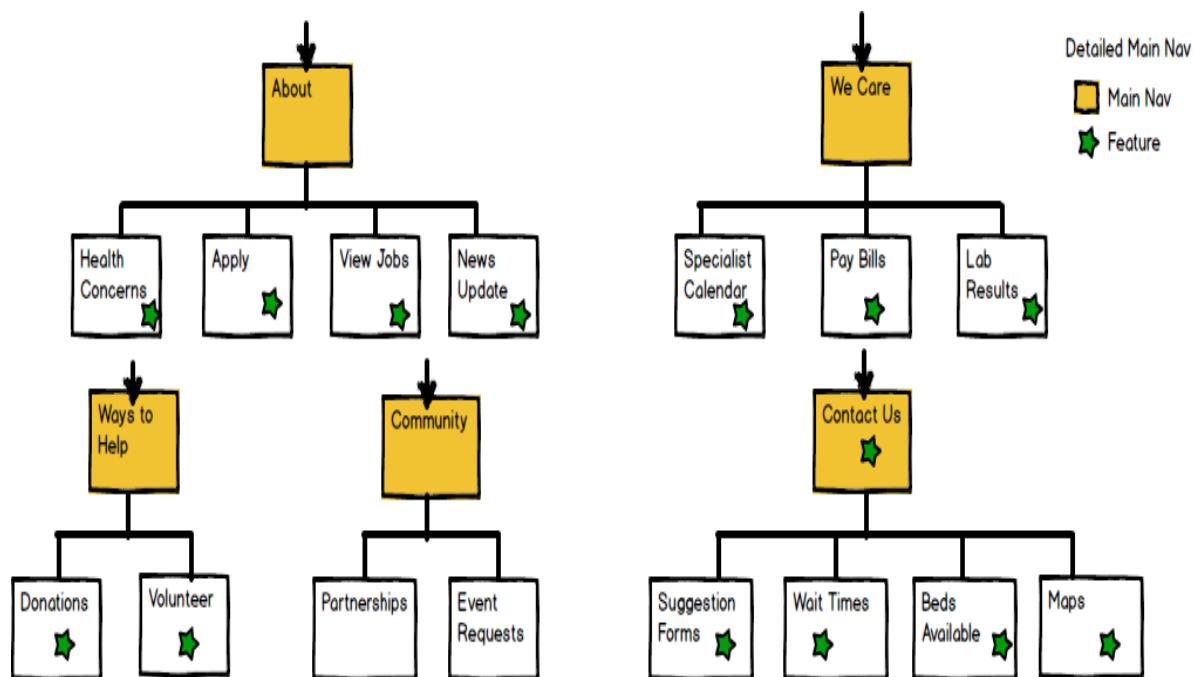
## 5. Content plan

### 5.1 Navigation Scheme

#### 5.1.1 Primary Navigation



#### 5.1.2. Secondary Navigation



## 5.2 Naming Conventions

### **Filenames:**

All files will follow the convention of filename – the filename, descriptive identifier of what the file does. This will create clear separation in the file structure, making it easy to understand which file is meant for which feature.

Examples – employee.aspx

donation.aspx

Class files are located in “App\_code” folder and use the one-word identifier, followed by ‘Class’ in their naming.

Examples - employeeClass.cs

          ` contactusClass.cs

Administrative files are located in “Admin” folder and follow the same rules as outlined above, with ‘-admin’ used at the end of the file name

Examples - Adminhealthconcers.aspx

AdminEmployment.aspx

Images are in the ‘img’ folder, any Javascript or jQuery libraries are in ‘js’ folder, Applicants who wish to upload their resume files are stored in ‘resumes’ folder, and styles in ‘App\_Themes’ folder. The above guidelines will create a clear separation in the file-structure, making it simple to locate and keep track of existing files.

### **Link Names: Side Bar Navigation Links**

**Health Concerns:** [daniellestirling.com/hospital/healthconcerns.aspx](http://daniellestirling.com/hospital/healthconcerns.aspx)

**Visiting Specialists Calendar:** [daniellestirling.com/hospital/visitingspecialists.aspx](http://daniellestirling.com/hospital/visitingspecialists.aspx)

**Donations:** [daniellestirling.com/hospital/Donation.aspx](http://daniellestirling.com/hospital/Donation.aspx)

**Pay Bills:** [daniellestirling.com/hospital/userlogin.aspx](http://daniellestirling.com/hospital/userlogin.aspx)

**Maps:** [daniellestirling.com/hospital/map.aspx](http://daniellestirling.com/hospital/map.aspx)

***URL Patterns:***

Lake of Humber Woods can be accessed from the following link  
[daniellestirling.com/hospital/home.aspx](http://daniellestirling.com/hospital/home.aspx)

***5.3 Feature Names***

All feature names are clear and descriptive of the content they contain, and are relevant to the category they are placed under in the navigation. The features are as follows:

- 1. Donations**
- 2. Employment**
- 3. Calendar**
- 4. Lab results**
- 5. Contact Us**
- 6. Image Slider**
- 7. Events Calendar**
- 8. Suggestion Box**
- 9. Directions/Maps**
- 10. Room Availability**
- 11. Parking Booking**
- 12. Lab Results**
- 13. Wait Times**
- 14. News Updates**
- 15. Volunteer**

***5.4 What content is going in, what's coming from client:***

The purpose of this project is to establish the interactive components of the site, and to make it responsive. The main goal is to allow the client to maintain the website on their own once the project is handed over. Thus, the features listed in the section above, the content management system, and the visual layout will be provided by the development team. The development team will train the client in how to operate, update, and maintain the site, with the goal that the client will then populate the redesigned site with the static content pages of the existing site.

## 6. User roles

In the proposed website there are three types of user roles:

- a) Admin
- b) Registered User
- c) Anonymous User

### Admin

Admin is responsible for managing the operations on the website. The administrator will be the one holding the ultimate authority. Admin can manage the information, which is being displayed on the website. Role of admin is responsible for adding/updating/removing the information from different modules. Such as admin can post/edit/remove the job vacancies available in hospital. He can view and remove the messages that are sent to hospital authorities by anonymous users. They have the permission to change and add new images to be displayed in the image slider.

### Registered User

A registered user is user that has become a patient of the hospital and in turn can use some of the features on the web site to help them manage their experience at the hospital. Registered users have the ability to login to the web site where they are presented the options of either paying hospital bills or viewing their laboratory results. By selecting pay bills, registered users are able to check the status of any bills they have with the hospital, as well as pay their hospital bills online with either credit card or by PayPal. By selecting lab results, they are able to view their history of laboratory results with the hospital.

### Anonymous User/ Visitor

Visitors are the users that can navigate through the website freely. They can check the alerts, news other stuff on the site. Also, they can contact the hospital authorities by filling out the “contact us” form. They just need to fill-in the information in mandatory fields (email-id, telephone) along with rest of the fields. Similarly, the applicants can visit the site to check for any vacancy in hospital and if there is, they can simply apply for it by filling out the form.

## 7. Third Party Libraries

The website utilizes several external libraries to enhance functionality and design. They are as follows:

Google Maps API for the generation of all website maps and directions.

PayPal API for the processing of Patient bill payment transactions.

- jQuery Version 1.8.2 – jQuery is implemented to add design and functionality complexity. It is used in the health concerns feature. The jQuery script files are located in the ‘js’ folder.

## 8. Master Page

The Master page for this project is “master.master” and can be found in the root directory. The master page contains the structured layout for the whole website for both public and administrative pages.

Cph\_head: contains all information in the header of the site

Cph\_main: is the place holder for the page content (ie. Calendar and all code for it would be placed inside of cph\_main)

Navigation: Contains code for the menu that will appear on each page

Header: contains the logo, contact information, login, and title of the site

Footer: contains site map, contact information, copyright information and links to each page

## 9. CSS

The website using the CSS files, located in styles folder under App\_theme folder in root directory.

### Main.css

- Contains all page styles
- Global styles used on each page
- Specific styling to all pages

Order:

1. Page Container
2. Global Styles
3. Home
4. Header
5. Footer
6. Container
7. About
8. Contact Us
9. Directions
10. Donations
11. Employment
12. Health Concerns
13. Maps
14. News
15. Parking
16. Report
17. Room Availability
18. Suggestions
19. View Jobs

### Response.css

- Contains responsive CSS code for website
- Has public and admin page responsive styles

Order:

20. Global
21. Home
22. Header
23. Footer
24. Container

- 25. About
- 26. Contact Us
- 27. Directions
- 28. Donations
- 29. Employment
- 30. Health Concerns
- 31. Maps
- 32. News
- 33. Parking
- 34. Report
- 35. Room Availability
- 36. Suggestions
- 37. View Jobs

Menu.css

- Contains all navigation menu styling
- Level 1: Starting Node (home)
- Level 2: Primary Navigation
- Level 3: Drop down options

Structure.css

- Header
- Footer

## 10.Features

### Pay Bills

The pay bills feature is a way for hospital patients to pay their medical bills such as paying for surgery or an x-ray, online without having to go into the hospital to pay it. This saves time for the hospital admins as they will spend less time on processing patient bills in person (This option will still remain available for those who prefer that method) and have more time for other administrative duties.

The administrative backend for the pay bills feature will allow for the management of patient bills; where by hospital admins will be able to register a new patient. This will allow hospital admins to create a new patient record and associate patient ID and password which will be unique to each patient. Create a new patient invoice (bill) for the patient. Hospital admins can also edit/update either the patient record or invoice should the need arise.

On the public side, patients will be able to login to the system to pay their bills by entering their patient ID, password. They are then showed a list of all of their invoices and are able to select one to view details. Upon viewing the details of a selected invoice, they are then able to select a payment method to pay the unpaid invoice; either by credit card or by PayPal. If selecting credit card as a payment method the patient will fill in the required fields and then submit the payment. If selecting PayPal as a payment method, the PayPal button will appear on screen linking the patient to the PayPal payment screen in which they will have to sign into their PayPal account to pay the invoice. Upon paying by PayPal or credit card they will be redirected to a payment conformation screen.

### Tables

#### Patient table

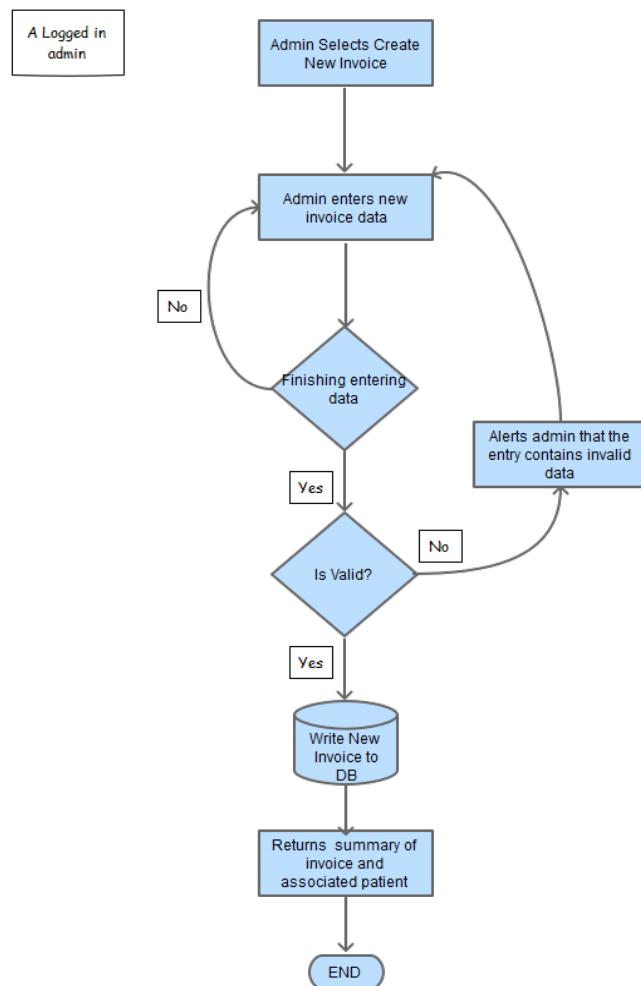
Column	Data Type	Description
Id	int	Patient ID
Fname	varchar(50)	First name
Lname	varchar(50)	Last Name
Address	varchar(50)	Address
Phone	Varcahr(12)	Phone number
Pc	varchar(10)	Postal Code
City	varchar(50)	City
Country	varchar(50)	Country
Username	varchar(50)	Username
Dob	varchar(15)	Date of Birth

### Invoices table

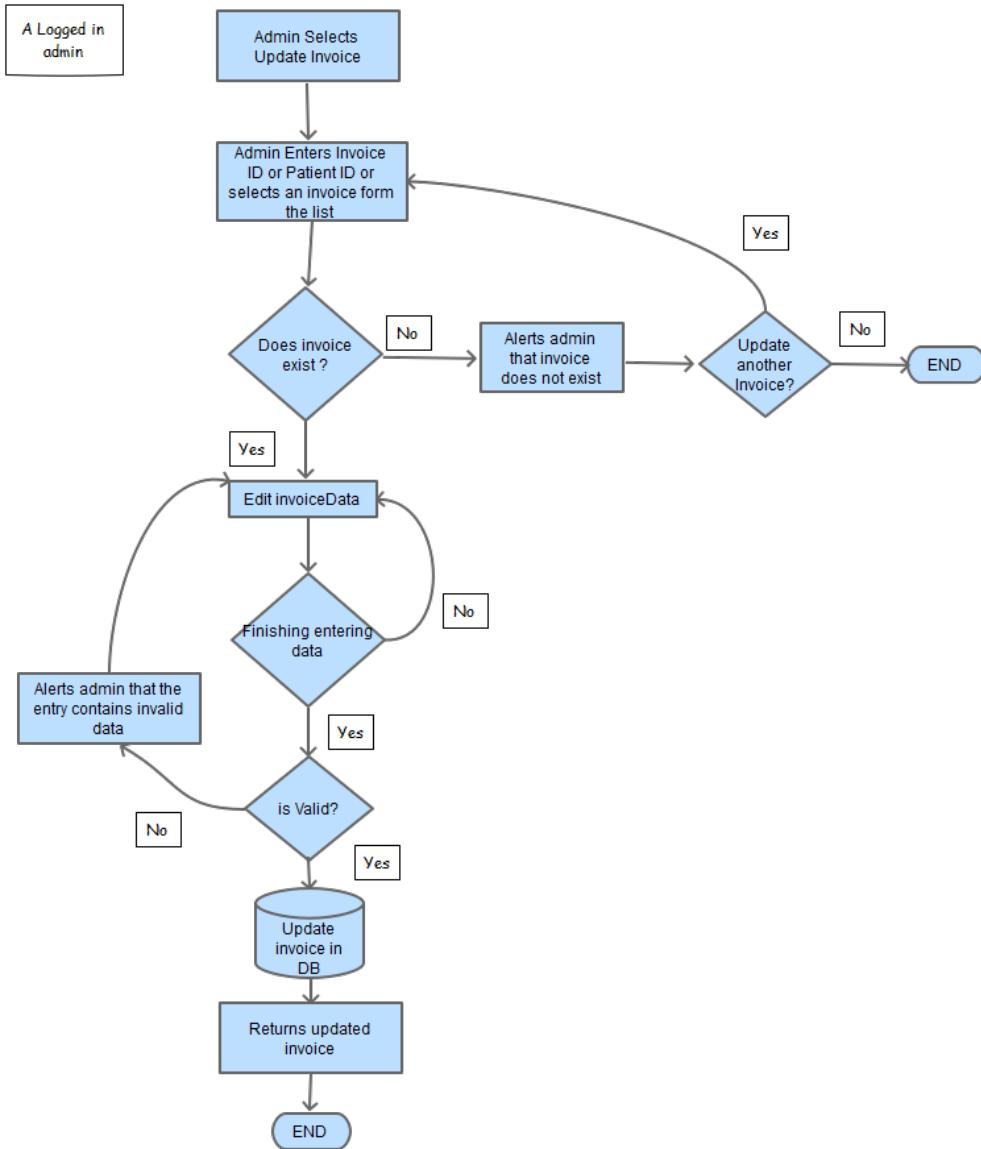
Column	Data Type	Description
Id	int	Invoice ID
Amount	Decimal(7,2)	Invoice amount
status	varchar(10)	Status of invoice Paid or not paid
Procedure	varchar(50)	Reason for issuing invoice
Payment_Method	varchar(50)	Selected payment method
Patient_id	int	Patient ID

### Data Flow Diagrams

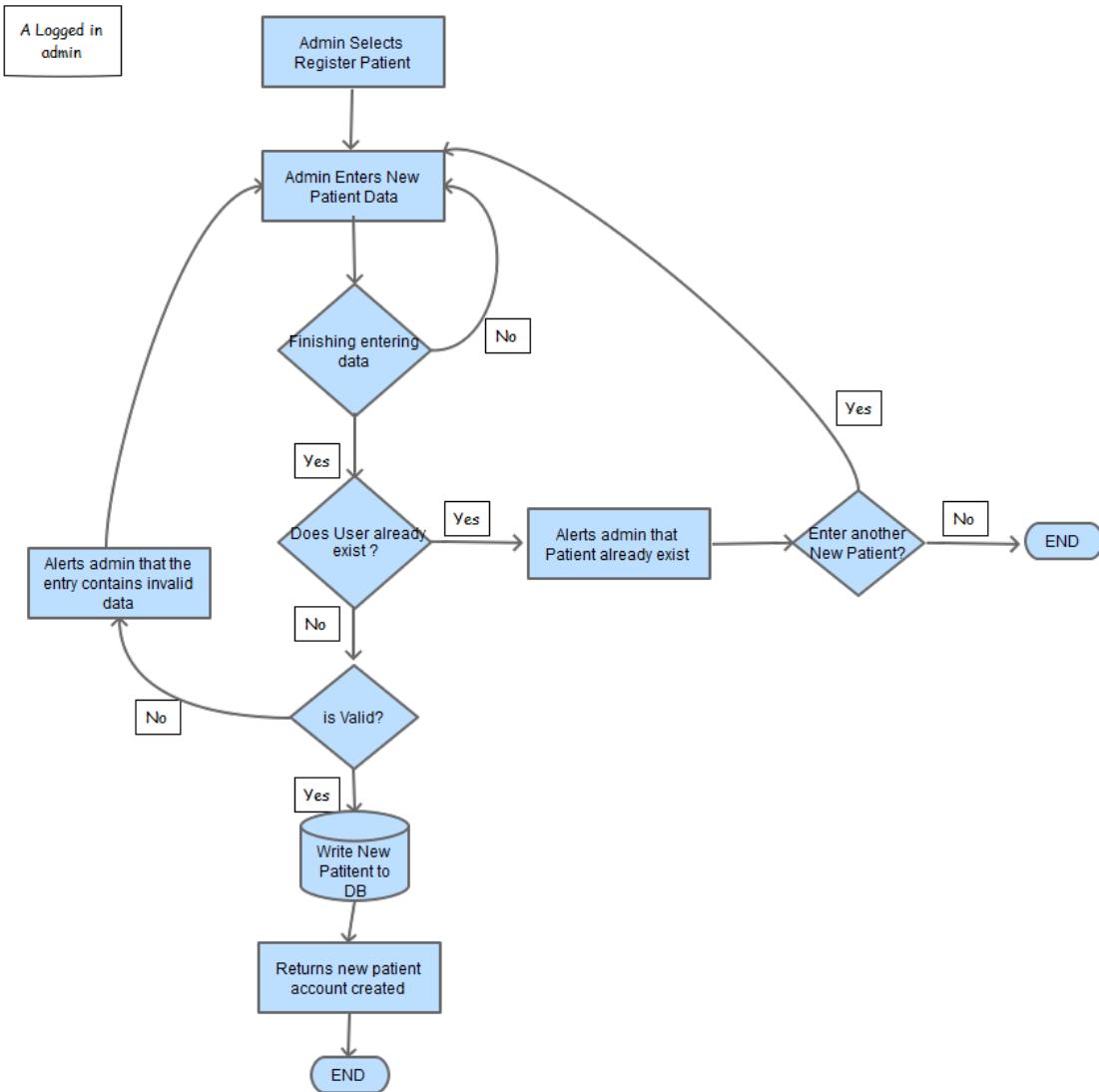
#### New invoice



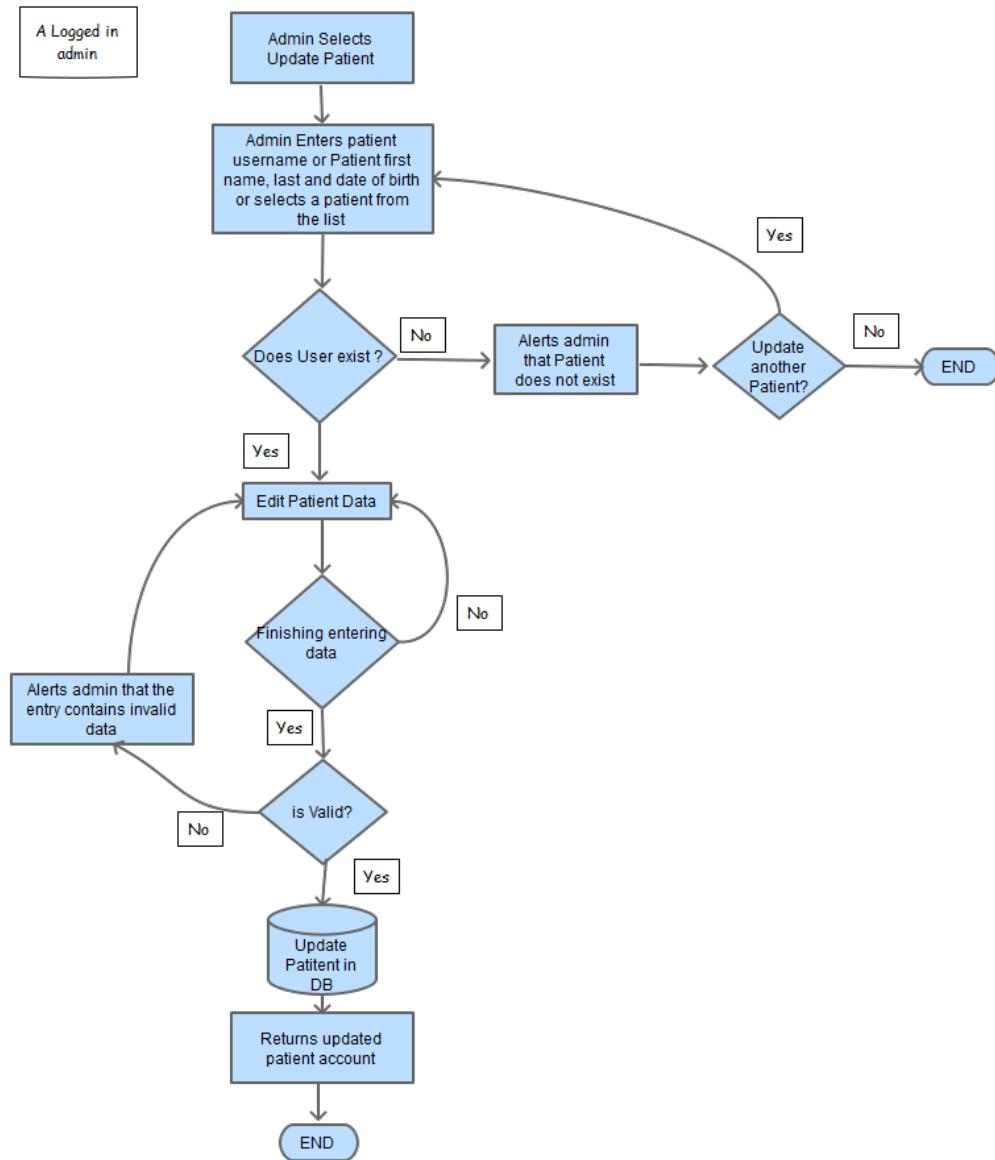
### *Update Invoice*



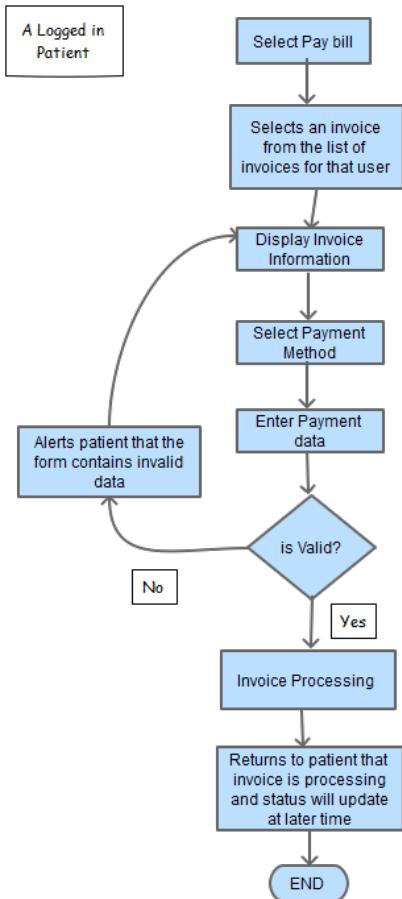
### Create Patient



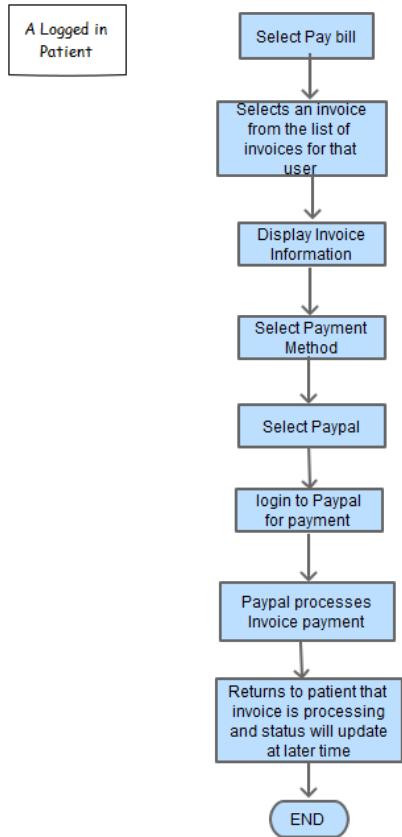
### Update Patient



### Public – pay Bills



**Public – Pay bills with Pay Pal**



## Wire Frames

### Create Invoice admin

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Admin Menu

### Create New Invoice

Amount  \*Required

Procedure  \*Required

Patient ID  \*Required

**Error Window**

The following errors were found

An Amount is required  
A Procedure name is required  
Patient ID is required

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

*Create patient*

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Admin Menu

## Register New Patient

Patient Information

First Name  \*Required

Last Name  \*Required

Address  \*Required

Phone  \*Required

Postal Code  \*Required

City  \*Required

Country  \*Required

Date of Birth  \*Required

Account Set up

User Name  \*Required

Password  \*Required

Re-Type Password  \*Required

E-mail  \*Required

Security Question  \*Required

Security Answer  \*Required

Donations

Illness outbreaks

Error Window

The following errors were found

First Name is required      Re-Type Password is required  
Last Name is required      E-mail  
Address is required      Security Question is required  
Phone is required      Security Answer is required  
Postal Code is required  
City is required  
Date of Birth is required  
User name is required  
Password is required

OK

Pay Bills

Map

Footer

## Update Patient

A Web Page

The page is a web application interface for managing patient information. It features a header with a logo, navigation links, and a search bar. The main content area includes a patient search section, a patient list, and a selected patient edit form. There are also several sidebar modules and an error window.

**Header:**

- Logo
- Lake of The Woods
- Contact Information
- Log in Here

**Navigation:**

- Welcome Admin

**Main Content Area:**

**Admin Menu:** Update Patient

**Patient Search:**

- Username:
- First Name:  Last Name:  Date of Birth:
- Search:

**Patient list / search results:**

Patient info row	Edit
Patient info row	Edit
Patient info row	Edit
Patient info row	Edit

By default search is disabled, on selecting of a search fields become required and the patient list will update to reflect the search

**Selected Patient Edit:**

First Name: <input type="text"/> *Required	Postal Code: <input type="text"/> *Required
Last Name: <input type="text"/> *Required	City: <input type="text"/> *Required
Address: <input type="text"/> *Required	Country: <input type="text"/> *Required
Phone: <input type="text"/> *Required	Date of Birth: <input type="text"/> *Required

**Error Window:**

The following errors were found

- First Name is required
- Last Name is required
- Address is required
- Phone is required
- Postal Code is required
- City is required
- Date of Birth is required

**Sidebar Modules:**

- Donations
- Illness outbreaks

**Footer:**

- Pay Bills
- Map
- Other

### Update Invoice

A Web Page

**Lake of The Woods**

Contact Information

Log in Here

Navigation ...

Welcome Admin

**Admin Menu**

**Update Invoice**

**Invoice Search**

Invoice ID

Patient ID

By default search is disabled, on selecting of a search fields become required and the invoice list will update to reflect the search

**Invoice list / search results**

Invoice info row	<a href="#">Edit</a>	Displays full list of Invoices in the database, list will update if a search was made.
Invoice info row	<a href="#">Edit</a>	when a row is selected to be edited by clicking edit it will then populate the edit template
Invoice info row	<a href="#">Edit</a>	
Invoice info row	<a href="#">Edit</a>	

**Selected Invoice Edit**

Amount <input type="text"/> *Required	Patient ID <input type="text"/> *Required
Status <input type="text"/> *Required	
Procedure <input type="text"/> *Required	
Payment Method <input type="text"/> *Required	
<input type="button" value="Update Invoice"/>	

**Error Window**

The following errors were found

- Amount is required
- Status is required
- Procedure name is required
- Payment method is required
- Patient ID is required

**Footer**

**Public – Pay bill**

A Web Page

The page is a web interface for paying bills. It features a header with a logo, navigation links, and contact information. The main content area is titled 'Pay Bills' and contains sections for 'Invoice list', 'Invoice details', 'Payment Form', and 'Credit Card Form'. A separate 'PayPal Form' section is also present. An 'Error Window' is overlaid on the page, displaying validation errors for required fields. The footer contains a link to 'Pay Bills'.

**Lake of The Woods**

Contact Information  
Log in Here

Navigation ...

Welcome Patient

**Pay Bills**

Menu

Invoice list

Invoice info row  Generates a list of invoices for the currently logged in Patient based off their Patient ID

Invoice info row

Invoice info row

Invoice details

Invoice Number #  
Amount: value  
Procedure: value  
Status: value  
[Cancel](#) [Pay Invoice](#)

Payment Form

Credit Card  PayPal

Credit Card Form

Credit Card #  \*Required

Card Holder Name  \*Required

Expiry Date  \*Required

[Pay Now](#)

PayPal Form

**Error Window**

The following errors were found

Credit Card is required  
Card Holder name is required  
Expiry Date is required

**Footer**

## Map & Directions

The map feature will allow the users to get directions to the main hospital or one of its branches from their home. This feature will be connecting to the Google Maps API in order to process directions, route and map images. There is also the ability to view a static map page containing all of the current hospital locations with a description of each one.

On the public side the user will be able to enter their address and get directions to and from the hospital by selecting one of the hospitals locations from a dropdown list which is being populated by the database. As well as display the route taken and give the option for additional routes i.e. avoid toll roads and avoid highways.

On the administrative side, the admin will be able to update the list of hospital locations by either adding new locations or deleting old ones.

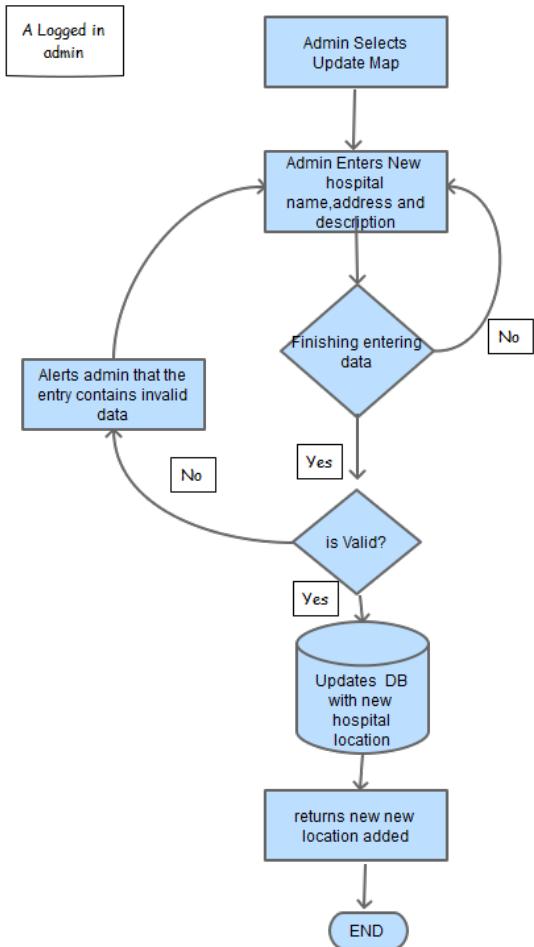
## Tables

### Map table

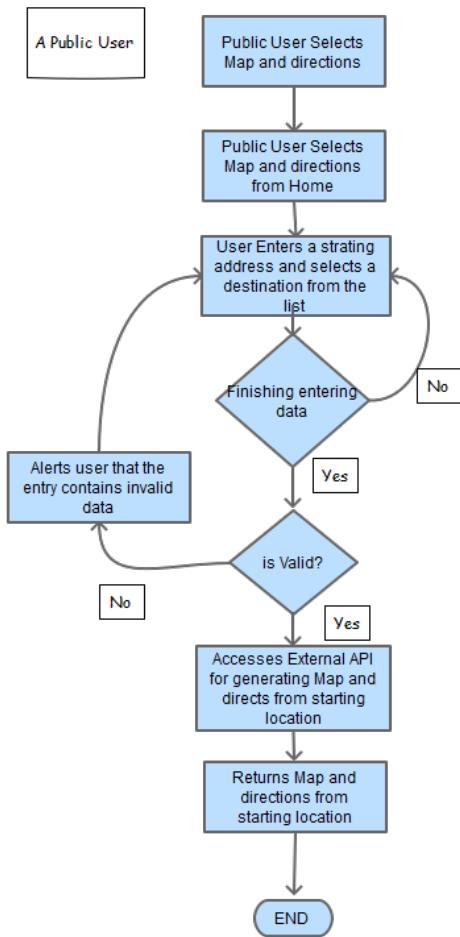
<b>Column</b>	<b>Data type</b>	<b>Description</b>
ID	int	Location ID of hospital
Hospital_name	varchar(50)	Name of hospital
Hospital_address	varchar(MAX)	Address of hospital
description	varchar(MAX)	Description of hospital

## Data Flow Diagram

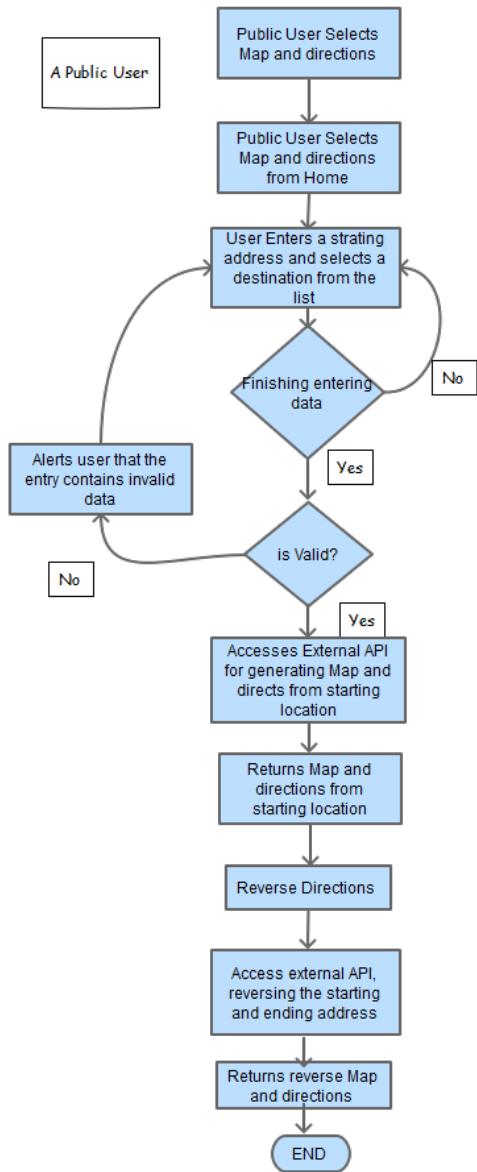
### Update Map



### Public – get directions



### Public – Reverse Directions



## Wire Frames

### Admin - map

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Admin Menu

## Add Hospital Location

Hospital name  \*Required

Hospital Address  \*Required

Error Window

The following errors were found

Hospital name is required  
Hospital Address is required

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

**Public – get directions**

A Web Page

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Directions

Displays map and directions from starting address to one of the hospital locations from the ending location dropdown list by clicking get directions.

Reverse direction of map and directions by

Starting Address

text \*Required

Ending location

Hospital Locations \*Required

Avoid Toll     Avoid Highways

Map

Directions

Donations

Illness outbreaks

Error Window

The following errors were found

Starting Address is required  
Ending Location is required

OK

Pay Bills

Map

Other

Footer

## Wait Times

The check wait times feature, will allow a patient to check the current time it will take to see a doctor in the hospital. This feature will help a potential patient make a decision on whether or not they should go to the hospital depending on the time it takes for a person to see a doctor.

The administrative backend for this feature will include being able to update the wait time, which will be updated at their digression

On the public side of this feature, the patient will be able to go to the website and click on the check wait times to see the waiting time, doctors on site and how busy the hospital is and display to the user a status colour based on the amount of time.

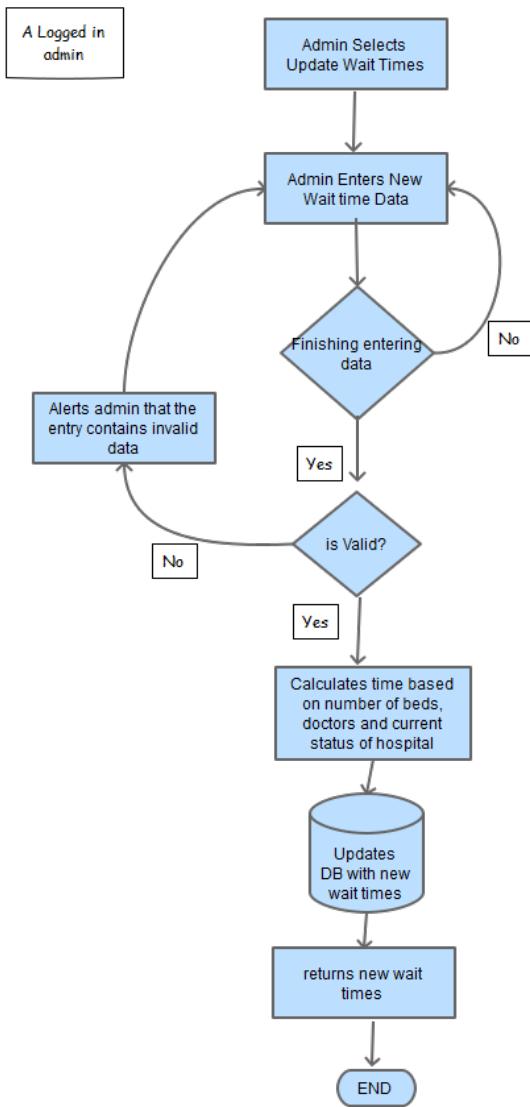
### Table

#### Wait times table

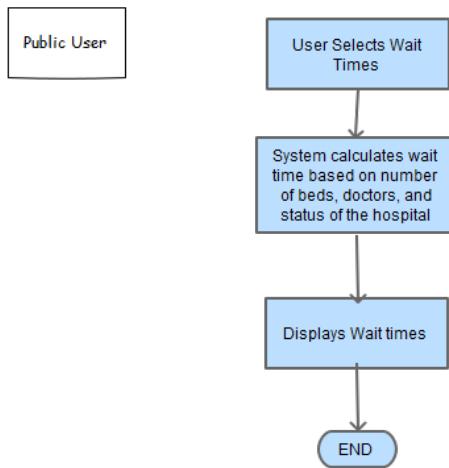
Column	Data type	Description
Time	varchar(50)	Estimated wait time in minutes
numDocs	int	Number of doctors on site
status	varchar(50)	Current status of the hospital. I.e. busy, quarantine
Num_beds	int	Current number of available beds

## Data Flow Diagrams

### Admin – Wait Times



### Public- Wait Times



## Wire Frames

### Admin – Wait Times

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Admin Menu

## Wait Times - Update

Number of Beds      Number of Doctors      Hospital Status

DropDownList \*Required      DropDownList \*Required      DropDownList \*Required

Update Wait Time

Error Window

The following errors were found

Number of Beds is required  
Number of Doctors is required  
Hospital Status is required

OK

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

**Public- Wait Times**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

## Wait Times

Your Estimated wait time is: Time

Number of Doctors on site: Number

Current Hospital Status: Status

This box will change colour to re-enforce the amount of time one must wait at the hospital

- Green an hour and under
- Orange 1 hour - 3 hours
- Red over 3 hours

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Contact Us:

The “contact us” version 1.0 will allow the users to contact the hospital directly

*Pubic:* The *Contact Us* feature is a means by which visitors/patients can contact the hospital. Visitors on the website will see a link called “Contact Us” and be able to click on the link and a form appears. They need to fill out the fields in form; with telephone and e-mail are mandatory fields. These fields are kept as mandatory to avoid spam messages and also to keep track of the sender. User inputs will be validated.

*Admin:* The “Contact Us” feature will have an administrative backend that will manage the messages sent by the visitors/patients. By managing the messages we mean that received messages can be viewed, removed and updated from view control. In the “Update” option admin can add remarks to the read messages. User inputs will be validated. Invalid e-mail-id will not be allowed. Null/Empty messages will not be allowed.

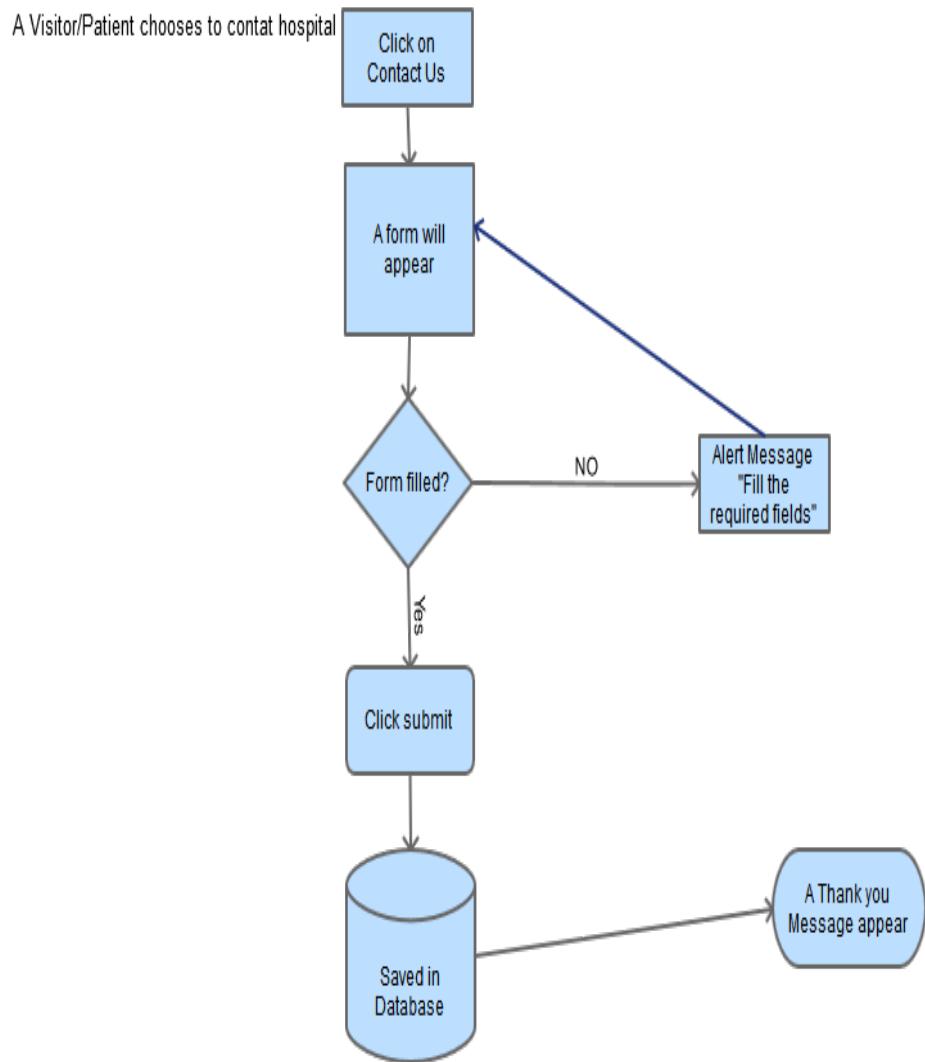
## Tables

Contact us:

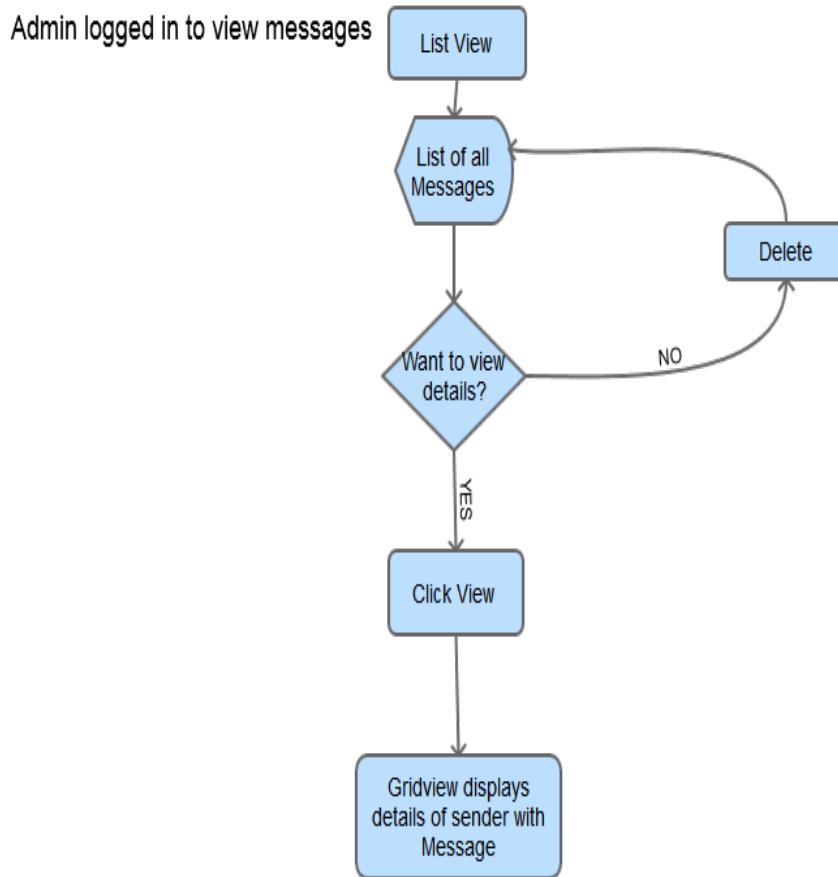
Column Name	Datatype	Description
ID (Primary Key)	INT, PK, UNIQUE, NOT NULL	Unique Identifier
First Name	Text 30 Characters NOT NULL	First Name of the sender
Last name	Text 30 Characters NOT NULL	Last name of the Sender
Telephone	Numeric NOT NULL	Valid Number of sender
E-mail	Text 30Characters NOT NULL	Valid e-mail of sender
Subject	Text 50 Characters NOT NULL	Subject line of message
Message Body	Text (Max) NOT NULL	Original message Body

## Data Flow Diagram

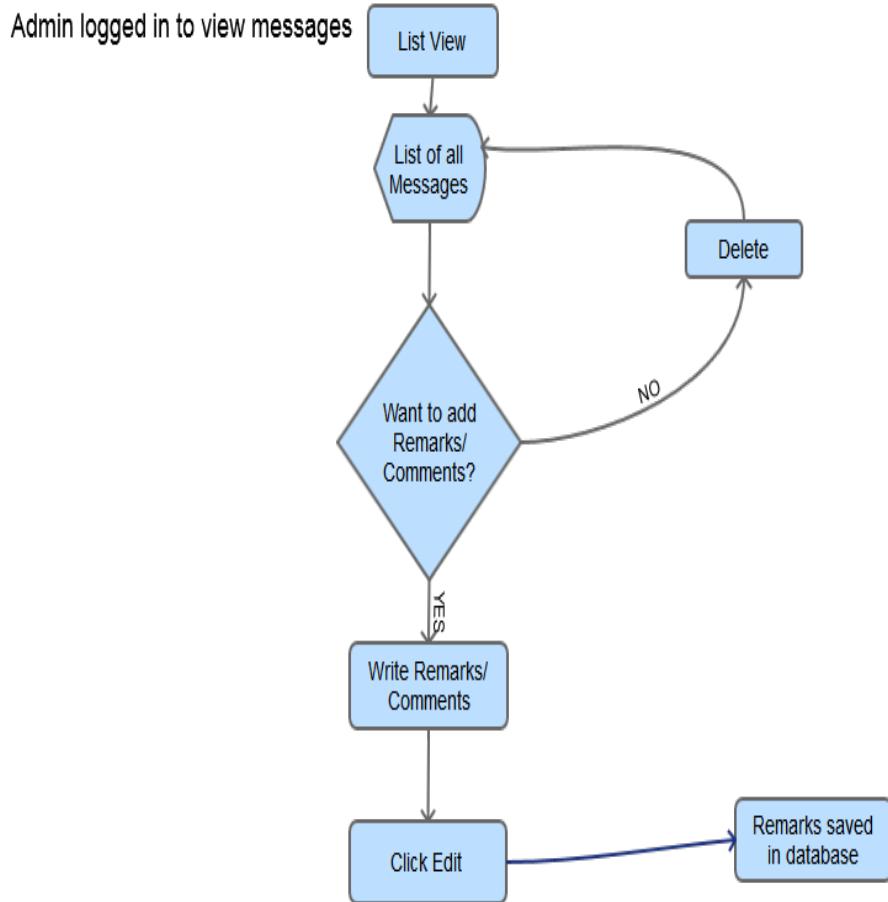
**Contact us (User):**



**Contact us (Admin):**



**Contact us (Admin):**



## Wire Frame

### Contact Us (Public):

A Web Page

The wireframe shows a web page layout for a contact form. At the top left is a logo icon. To its right is the page title "Lake of The Woods". On the far right of the header are links for "Contact Information" and "Log in Here". Below the header is a navigation bar with a placeholder "...". The main content area is titled "Main Article" and contains a form with fields for First Name, Last Name, Mobile, E-Mail, Subject, and Message, each marked with a red asterisk indicating required input. A large text area for a message body is also present. A "Submit" button is located below the message body field. To the right of the main article is a sidebar titled "Donations" and "Illness outbreaks". At the bottom of the page are three footer links: "Pay Bills", "Map", and "Other".

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

First Name

Last Name

Mobile

E-Mail

Subject

Message \*

Submit

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

Contact Us: (Admin)

The diagram illustrates a web page layout for an administrative interface. At the top, there's a header bar with standard browser controls (back, forward, stop, refresh) and a search bar. The title 'Lake of The Woods' is centered above a main content area. In the top right corner, there are links for 'Contact Information' and 'Log in Here'. Below the title, a 'Navigation' menu is shown with three items. A 'Welcome Admin' message is displayed. The main content area is divided into several sections:

- Main Article**: A large section containing a heading 'Messages' followed by a list of six messages, each with 'View', 'Edit', and 'Delete' buttons.
- Donations**: A small rectangular box.
- Illness outbreaks**: A small rectangular box.
- Pay Bills**, **Map**, and **Other**: Three separate rectangular boxes arranged horizontally below the main article section.

At the bottom of the page is a footer section labeled 'Footer'.

Contact us (Admin)

The diagram illustrates a web page layout for an administrative interface. At the top, there's a header bar with standard browser controls (back, forward, stop, search) and a URL field set to "http://". To the right of the URL field is a magnifying glass icon. The main title "Lake of The Woods" is centered above a navigation menu. On the left, a "Logo" placeholder is shown. To the right of the title, there are links for "Contact Information" and "Log in Here". Below the title, a "Navigation" menu is partially visible. A welcome message "Welcome Admin" is displayed. The central area is labeled "Main Article" and contains a section titled "Messages". It shows a list of six messages, each with a "View", "Edit", and "Delete" button. Below this list is a "Details of Sender" table:

First Name	Last Name	Mobile	E-mail-id	Subject	Message
*****	*****	XXXX	*****	*****	Some Text

An arrow points from the "Details of Sender" table down towards the "Messages" list. To the right of the main article, there are two sidebar boxes: "Donations" and "Illness outbreaks". At the bottom of the page, there are three footer links: "Pay Bills", "Map", and "Other". The entire page is framed by a thick black border.

## Employment:

The “Employment” version 1.0 will allow perspective employees to apply for the jobs in hospital.

*Public:* The employment feature will allow the perspective employees to apply for the jobs in hospital. The employment will be accessible via secondary navigation. Users can go to the “About” option and the employment can be found in the dropdown section of the menu. When users click on “employment”, list of jobs that are currently available in hospital will be displayed. This page shows the title, description, department, status (full-time/part-time), and closing date. User requires clicking on “Apply” button which will open a new window with form in it to be filled. They are supposed to fill in the information in the form. Users are required to fill their personal information, educational details and experience, if any. There will also be an option to upload the resume. Some fields are mandatory to fill, in order to avoid spam. Validation controls will be applied on all user inputs. Anyone can apply for the job without the need to login.

*Admin:* The administrative backend will manage the Employment. The admin will be responsible for posting the current jobs in hospital, including the title, description, department, status and last date to apply. The admin will be responsible for removing the jobs that are no longer available and editing, adding other jobs.

In another page, admin has the option to view the list of details of the applicants who have applied for the job. Admin can also delete the entries of applicants. User inputs will be validated.

### Table

Employee:

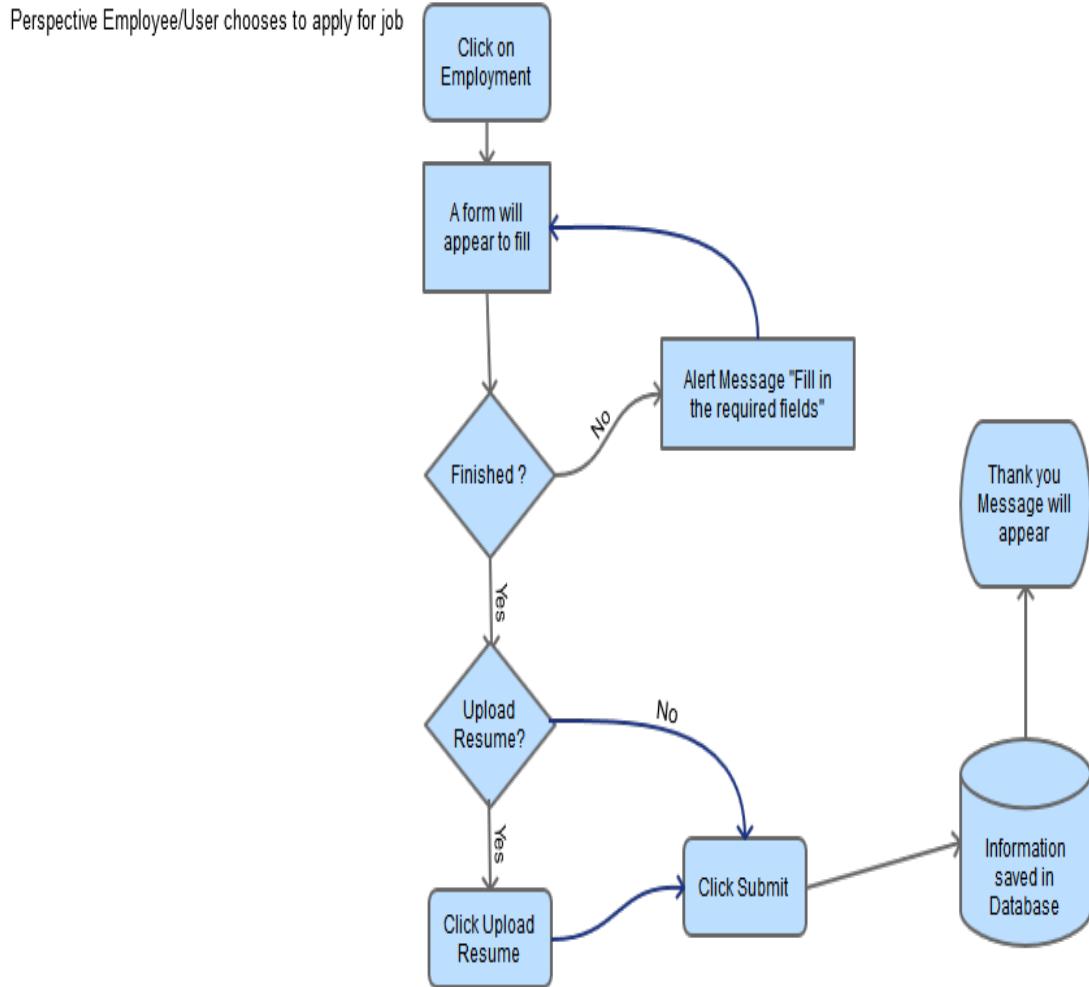
Column Name	Datatype	Description
ID (Primary Key)	INT, PK, NOT NULL	Unique Identifier
First Name	Varchar (50), NOT NULL	First Name of the Applicant
Last name	Varchar (50) , NOT NULL	Last Name of the Applicant
E-mail	Varchar (50), NOT NULL	Valid Email of the Applicant
Primary Phone	Numeric(18,0), NOT NULL	Primary Phone Number of the Applicant
Other Phone	Numeric(18,0)	Other Phone Number
Address	Varchar (50), NOT NULL	Address of the applicant
Postal Code	Varchar (20)	Postal code
Country	Varchar (50), NOT NULL	Country of the Applicant
State	Varchar (50), NOT NULL	State of residence of the Applicant
Highest Education(Date attended) From	Date, NOT NULL	Starting Date of highest degree
Highest Education (Date attended) To	Date, NOT NULL	Ending date of highest degree
Level	Varchar (50), NOT NULL	Level of Education of the Applicant
Educational Institute	Varchar (100), NOT NULL	Institute of education of the Applicant
Work Experience	Varchar (Max)	Prior work experience if any

job\_postings

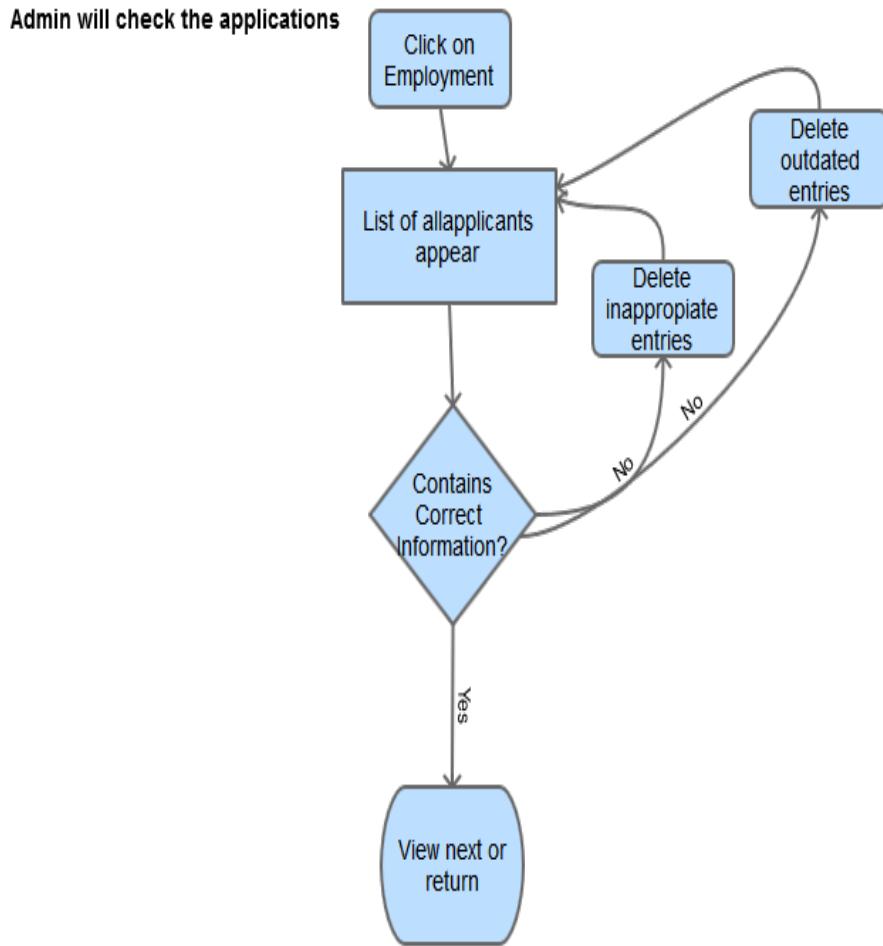
<b>Column Name</b>	<b>Datatypes</b>	<b>Description</b>
ID (Primary key)	INT, PK, , NOT NULL	Unique Identifier
Title	Text 50 characters	Title of job
Description	Varchar (Max) , NOT NULL	Duties/description of job
Closing Date	Date	Last date to apply for the job
Status	Varchar(50) , NOT NULL	Part-time/ Full-time
Department	Varchar(50) , NOT NULL	Name of department

## Data Flow Diagrams

### Employment (Public Side)



**Employment (Admin):**



## Wireframe

### Employment (Public):

The wireframe depicts a web browser window for 'Lake of The Woods'. The header includes standard navigation icons (back, forward, stop, home) and a URL bar showing 'http://'. The title 'Lake of The Woods' is centered above a main article area. To the right of the title are 'Contact Information' and a 'Log in Here' link. Below the title is a 'Navigation' section with three dots. The main article area is titled 'Main Article' and contains a heading 'Employment'. It features a table with columns: Title, Description, Department, Status, and Closing Date. There are four rows of this table, each with an associated 'Apply' button to its right. To the right of the main article is a sidebar with sections for 'Donations' and 'Illness outbreaks'. At the bottom of the page are three links: 'Pay Bills', 'Map', and 'Other'. A footer section at the very bottom contains the word 'Footer'.

A Web Page

http://

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

Employment

Title	Description	Department	Status	Closing Date

Apply

Apply

Apply

Apply

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

**Employment (public)**

A Web Page

http://

**Lake of The Woods**

Contact Information

Log in Here

Navigation ...

Main Article

Personal

First Name	Address	
Last name	Postal Code	
E-Mail	State	
Primary Phone	Country	
Other Phone	Upload Resume	No file chosen

Highest Education

Date of Attended

From	Education level
To	Institution

Work Experience

Submit

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

**Employment – Public (Upload Resume)**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

Personal

First Name

Last name

E-Mail

Primary

Address

Postal Code

City

Country

Zip

Phone

Other Phone

Upload Resume

No file chosen

File1.docx  
file2.docx  
resume.docx  
nresume.docx  
a.docx

File Name

Open

Employment

Highest Education

Date of Attended

From

To

Education level

Institution

Work Experience

Submit

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

**Admin (Employment):**

The diagram illustrates a web page layout for an administrative interface. At the top, there's a header bar with standard browser controls (back, forward, stop, refresh) and a URL field set to "http://". Below the header is the main content area.

The main content area features a logo placeholder labeled "Logo" and the title "Lake of The Woods" in large, bold letters. To the right of the title are links for "Contact Information" and "Log in Here".

Below the title is a navigation bar with the text "Navigation ...". Underneath it, a welcome message says "Welcome Admin".

The central part of the page is a "Main Article" section. It contains a heading "List of Jobs" followed by a table-like structure with six rows. Each row has a "Delete" button and an "Edit" button to its right. A "Add New" button is located at the bottom right of this section.

To the right of the main article, there are two smaller sections: "Donations" and "Illness outbreaks", each represented by a blank rectangular box.

At the bottom of the page, there are three additional rectangular boxes: "Pay Bills", "Map", and "Other".

The footer of the page contains the word "Footer".

**Admin (Job Postings):**

A Web Page

The wireframe shows a web browser window with the following layout:

- Header:** A logo icon labeled "Logo" and the title "Lake of The Woods".
- Header:** "Contact Information" and "Log in Here" links.
- Navigation:** A "Navigation" section with three dots (...).
- Welcome:** "Welcome Admin" message.
- Main Article:** "Main Article" heading. Below it is a form titled "Add Jobs" with fields for "Title", "Description", "Department", "Status", and "Closing Date", each with a red asterisk (\*) indicating required input. There are "Post" and "Cancel" buttons at the bottom.
- Right Sidebar:** "Donations" and "Illness outbreaks" sections.
- Bottom Row:** Three empty boxes labeled "Pay Bills", "Map", and "Other".
- Footer:** "Footer" section.

**Admin (Job Postings):**

A Web Page

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Main Article

Edit Jobs

Title  \*

Description  \*

Department  \*

Status  \*

Closing Date  \*

Update Cancel

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Image Slider

The “**Image Slider**” version 1.0 will display images randomly.

*Public:* The “**Image Slider**” is a feature that provides the visitors a glimpse of hospital services, environment, care, events, camps, satisfied patients etc. The images in image slider will rotate after some delay automatically and visitor can also move images backward and forward. It will encourage them to get familiarize and feel good about coming to the hospital and getting well. Without logging in, a visitor can click a button to receive another set of image and text.

*Admin:* The Image Slider will have an administrative backend that will manage the images. By managing we mean that images can be changed, removed, added from time to time. Description about the corresponding image will also be displayed at the same time. If the user is an admin, they would be able to add or edit the path and description for image. There will be no user inputs, so no errors occur from public side. For Admin, it is required to provide the correct URL and description for image.

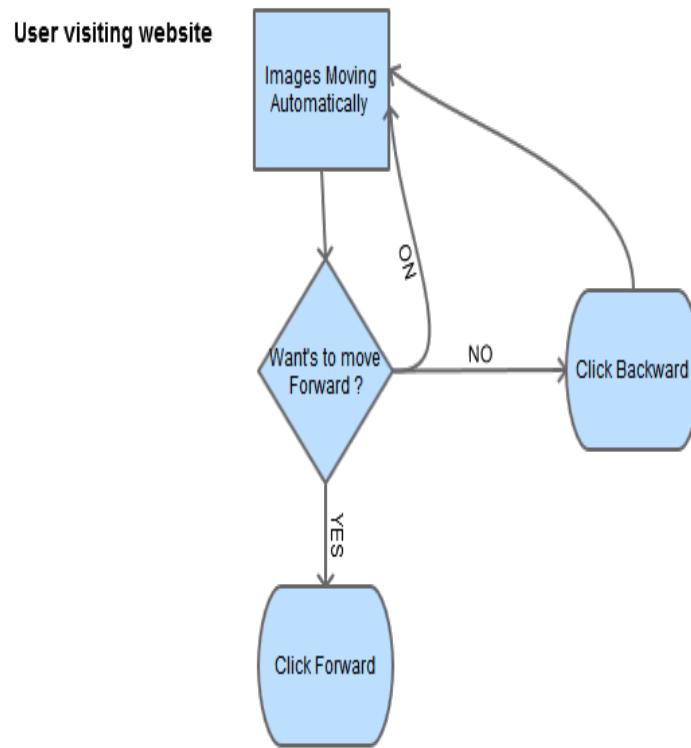
## Table

Image slider

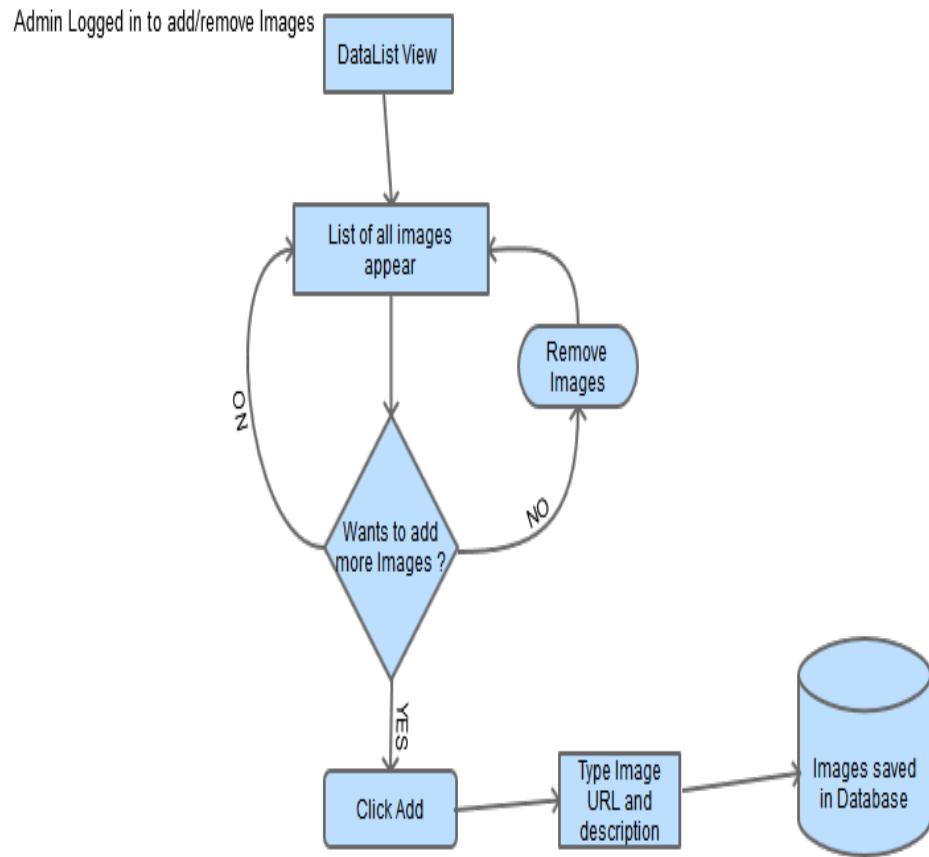
Column Name	Datatype	Description
Image_id (Primary Key)	Numeric	Unique Identifier
Image URL	Text 100 characters	Path of Image
Image Description	Text 255 characters	Description of the image

## Data Flow Diagram

*Image Slider (Public):*

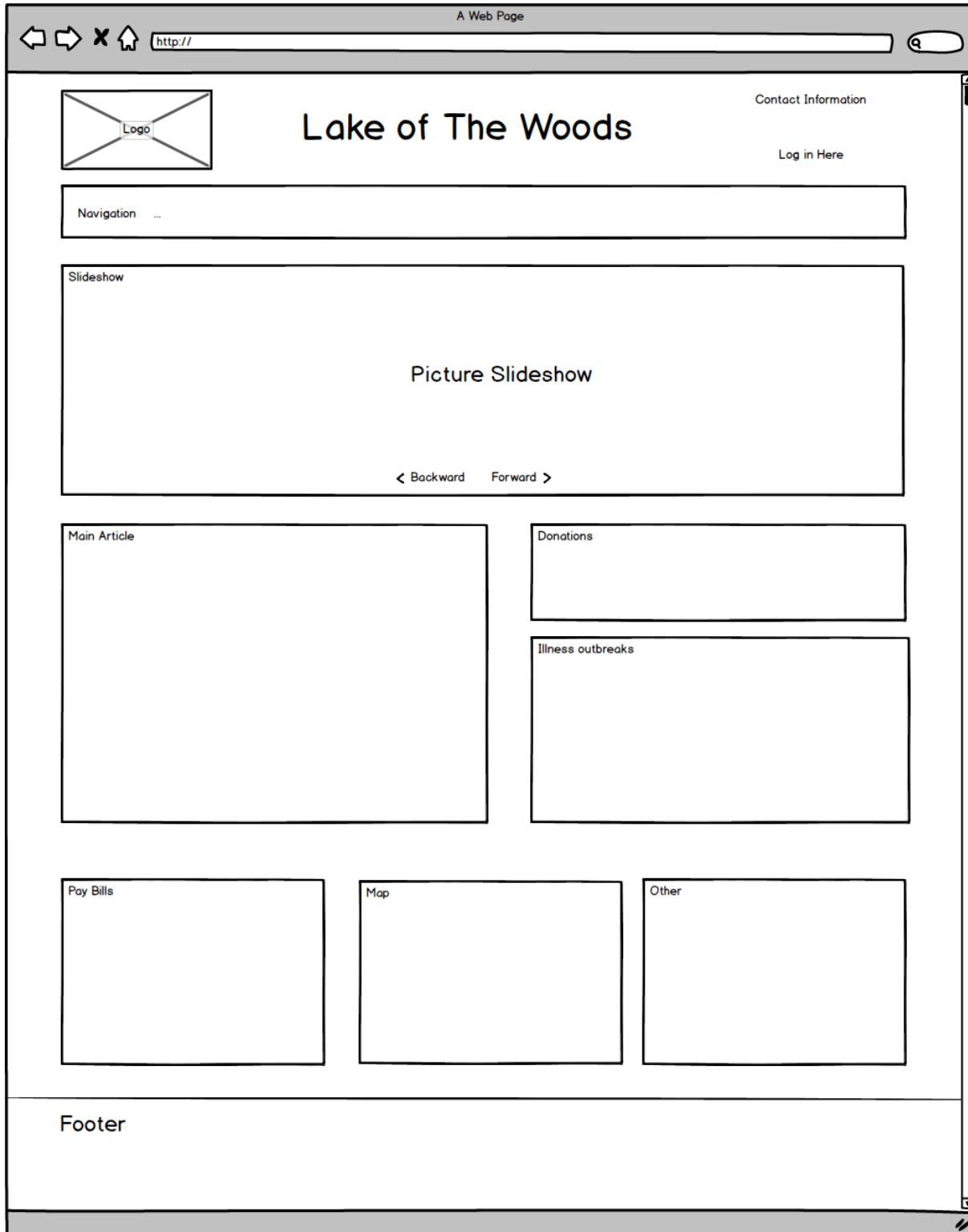


**Image Slider (Admin):**



## Wire Frame

### Image Slider (Public):



**Image Slider (Admin):**

The diagram illustrates a web page layout for an administrative interface. At the top, there's a header bar with standard browser controls (back, forward, stop, refresh) and a URL field set to "http://". To the right of the URL field is a search icon. The main title "Lake of The Woods" is centered above a navigation bar containing "Contact Information" and a "Log in Here" link. Below the navigation bar is a "Welcome Admin" message. The central content area is divided into several sections:

- Main Article:** A large section containing a heading "List of Images". Inside this section, there are two columns: "Image URL" and "Description". Each row in the table has three buttons: "Edit", "Delete", and "Add New". There are five rows in total.
- Donations:** A small rectangular box.
- Illness outbreaks:** A large rectangular box.
- Footer:** A horizontal bar at the bottom of the page.

Below the main content area are three smaller rectangular boxes labeled "Pay Bills", "Map", and "Other".

**Image Slider-Upload Image (Admin):**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Main Article

Upload Images

Description

Image URL

Add Cancel

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

**Image Slider-Edit Image (Admin):**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Main Article

Update Images

Description

Image URL

Update Cancel

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Suggestion Card

The suggestion card feature is a means by which users can send feedback to the hospital's website. This feature is a form created to allow the user to enter their contact information and the user will give feedback, comments and suggestions about the hospital. The form will consist of a dropdown list with which the user can select options, for the type of suggestions to be made for example, a complaint. This feature will assist administrators with upgrading the website and possibly adding or removing services based on feedback received. For this feature (client side) the user will enter information through a form that will be sent to the database. Provision will be made to prevent Spam from being submitted through the form. Hence, a Completely Automated Public Turing Test (CAPTCHA) will be incorporated to the form, this will generate and grade tests that humans can pass but current computer programs cannot as a mean to prevent unwanted worms, spam or viruses. On the administration backend side the user will be able to manage the form through updating the form, by removing or adding contents to the form via login. Additionally, Admin will be alerted by means of email when a suggestion is received.

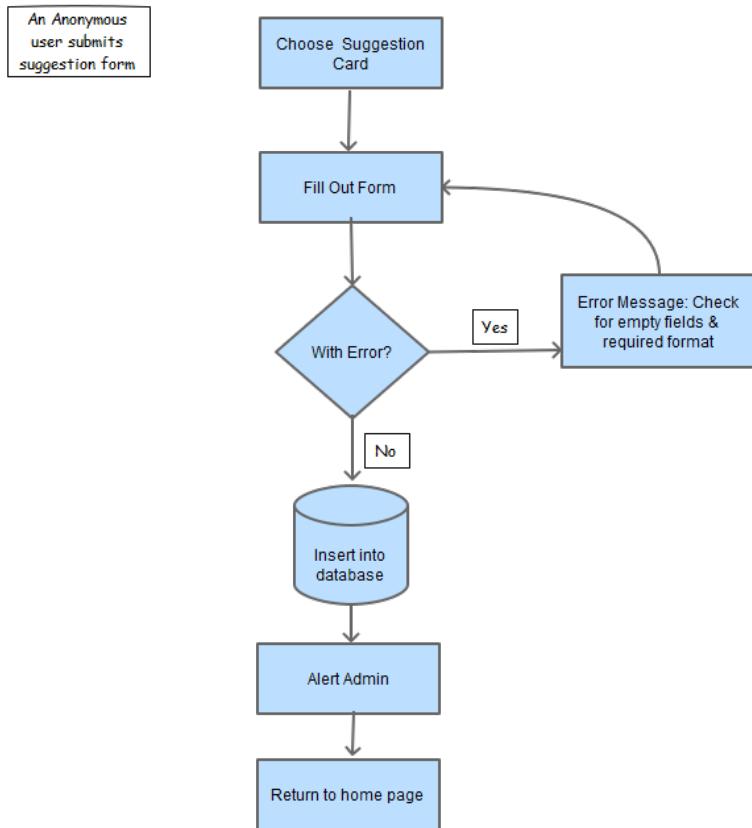
### Table

#### Suggestion Card

Fields	DataType	Description
suggestionType	Varchar(50)	Type of suggestion
firstName	Varchar(max)	The user's first name
lastName	Varchar(max)	The user's last name
phoneNumber	Nvarchar(20)	The user's phone number
email	Varchar(max)	The user's email
contactTimes	Varchar(20)	The time the user can be contacted
messageBox	Nvarchar(max)	The area where the user will type in their suggestions/comments/ feedback

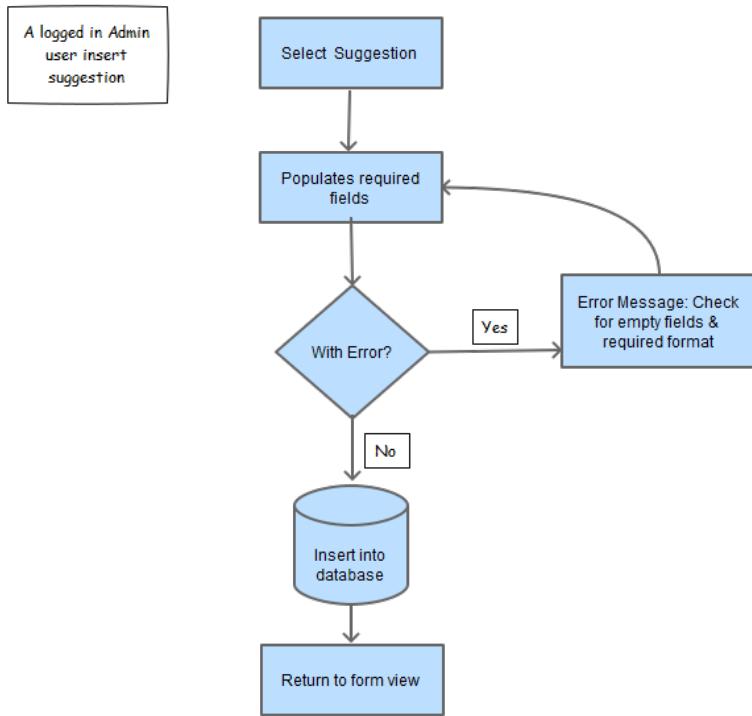
## Data Flow Diagram

### Suggestion card - Public



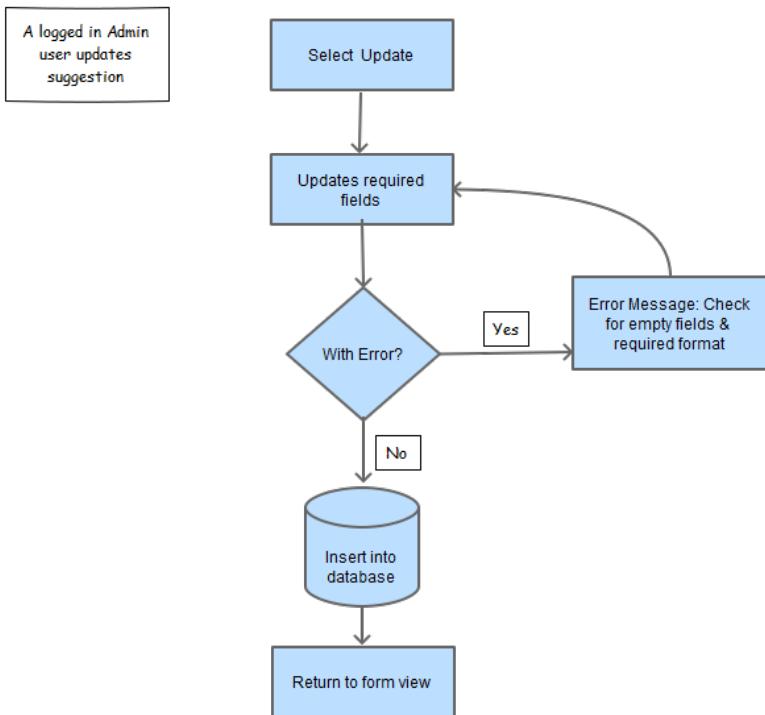
We have established that this user will make a choice: “Suggestion Card”. Filling out the form fields is the next step and then it is a matter of whether there is an error or not. The “yes” arrow assumes that the user has an error and must validate the form, by ensuring that all fields are populated using the required format. The “No” arrow assumes that there is a “Submit” button. The cylinder is our call to submit to the database and our outcome is to return to the Home page.

### **Suggestion Card - Admin**



We have established that this is a logged in user and this user will make a choice: “Insert Suggestion”. Filling out the form fields is the next step and then it is a matter of whether there is an error or not. The “yes” arrow assumes that the user has an error and must validate the form, by ensuring that all fields are populated using the required format. The “No” arrow assumes that there is a “Insert” button. The cylinder is our call to submit to the database and our outcome is to return to the Home page.

### Suggestion Card – Admin Update



We have established that this is a logged in user and this user will make a choice: “Update Suggestion”. Filling out the form fields is the next step and then it is a matter of whether there is an error or not. The “yes” arrow assumes that the user has an error and must validate the form, by ensuring that all fields are populated using the required format. The “No” arrow assumes that there is a “Update” button. The cylinder is our call to submit to the database and our outcome is to return to the Home page

## Wireframe

### Suggestion - Public

A Web Page

The wireframe shows a web browser window with the following layout:

- Header:** A logo icon containing the text "Logo".
- Title:** "Lake of The Woods".
- Right Header:** "Contact Information" and "Log in Here".
- Left Sidebar:** "Some text" and "Navigation ...".
- Content Area:** "Slideshow" placeholder.
- Form Area:** A large form for suggestions. It includes:
  - "Suggestion Type" dropdown set to "Complaint".
  - "Required fields" indicator (\* Required fields).
  - "First Name" and "Last Name" input fields with red asterisks.
  - "Phone Number" input field.
  - "Contact Times" radio buttons for "Morning" and "Evening".
  - "Email" input field with a red asterisk.
  - A CAPTCHA box with the text "ARE YOU HUMAN? ENTER TEXT" and "YYzzBGV2".
  - "Message" input field with a red asterisk.
  - "Submit" and "Reload" buttons.
- Error Window:** A modal dialog box titled "Error Window" showing validation errors:
  - The following errors were found
  - First name required
  - Last name required
  - Email required
  - Message required
- Footer:** "Pay Bills", "Map", and "Other" links.

The form fields are directly based on the database. In this case each input has a corresponding row in the database. Mandatory fields are indicated with a red asterisk.

**Suggestion card - admin**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Slideshow

Suggestion Type Complaint \* Required fields

First Name  Last Name  \*

Phone Number

Contact Times  Morning  Evening

Email  \*

ARE YOU HUMAN?  
ENTER TEXT  
YYzzBGV2

Message \*

Update Delete

Donations

Error Window

The following errors were found

First name required  
Last name required  
Email required  
Message required

Pay Bills

Map

Other

Footer

The form fields are directly based on the database. In this case each insert, update or delete is to a corresponding row in the database. Mandatory fields are indicated with a red asterisk.

## Lab Results

The Lab results feature is a means by which the hospital can display patient lab results online. Patients to the to the hospital's website will see a link called "Lab Results" and will be able to click on the link. After logging in with a unique patient identification number, the patient will be able to view the report in different formats such as PDF, Excel. This is enabled through an automatic option made available through the report. This option is available through a dropdown list that the user can select either to download to PDF or EXCEL, then to print or view a report of their lab results if required. The lab results feature will have an administrative backend that will manage the lab results, the administrative user will have to login in to the website in order to manage the lab results. By managing the lab results, it is meant that the lab technician will insert the patient's information, update or delete when necessary.

## Tables

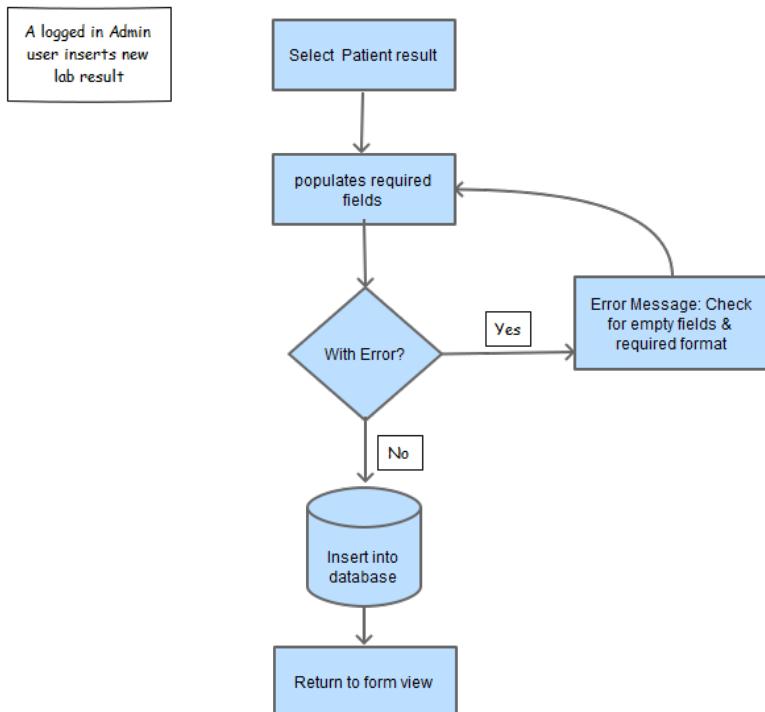
### Lab Results

Fields	DataType	Description
patientID	integer	This is the primary key
Date of Birth	Date	This is the patient's date of birth
Sex	Varchar(10)	This is the patient's gender
testType	Varchar(max)	This is the patient's test type
testCode	Nvarchar(20)	This is the patient's test code
resultType1	Nvarchar(max)	This is one type of patient's result

resultType2	Nvarchar(max)	This is one type of patient's result
resultDescription	Varchar(max)	This is the description of the patients result
Abnormal	Varchar(max)	States whether abnormalities detected
referenceRange	Varchax (max)	This is the test range from minimum to maximum
Units	varchar	This is the measurement type used by the lab tech

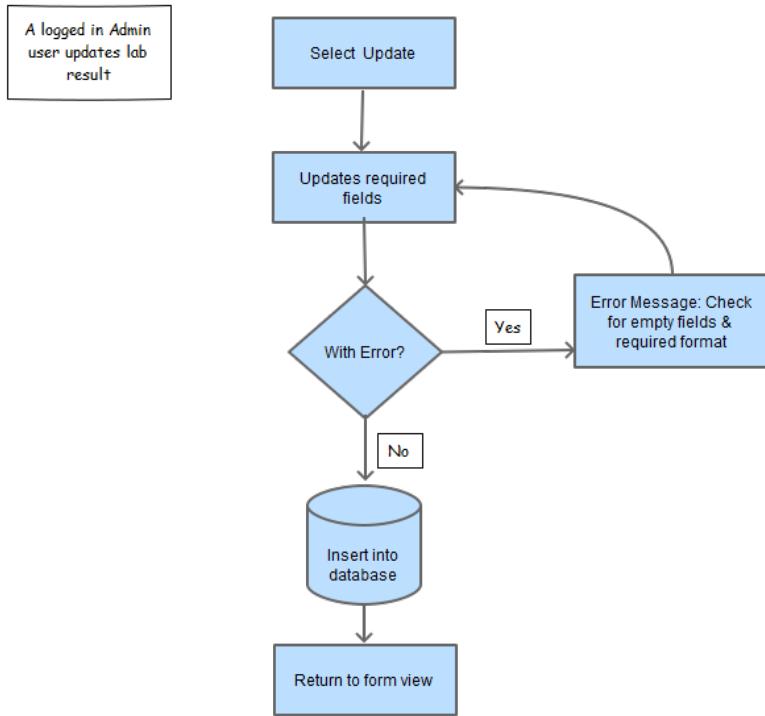
## Data Flow Diagram

### Lab result -Admin Insert



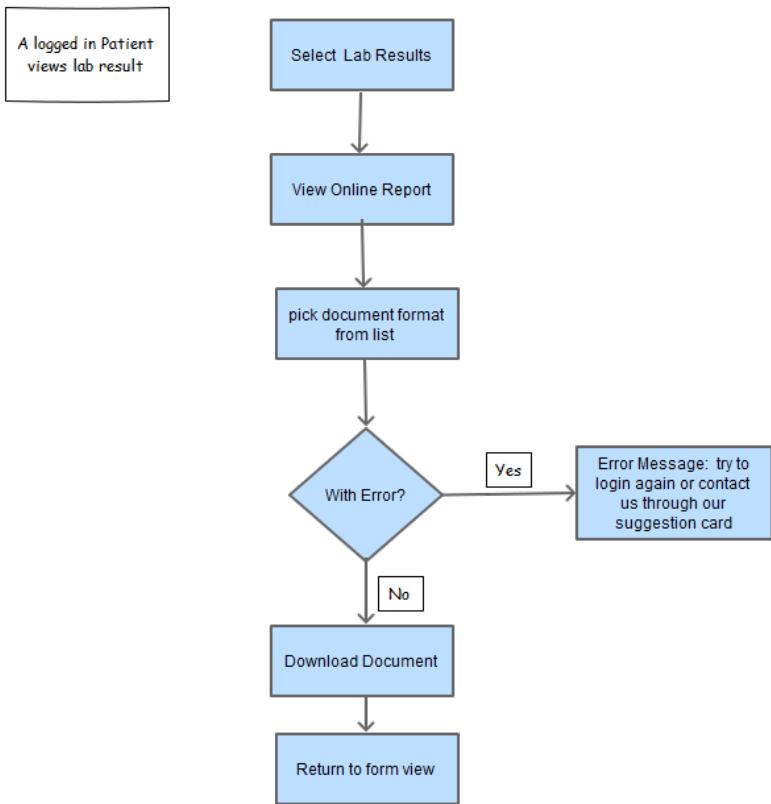
We have established that this is a logged in user and this user will make a choice: “Insert Patient Result”. Filling out the form fields is the next step and then it is a matter of whether there is an error or not. The “yes” arrow assumes that the user has an error and must validate the form, by ensuring that all fields are populated using the required format. The “No” arrow assumes that there is a “Insert” button. The cylinder is our call to submit to the database and our outcome is to return to the Home page.

### Lab result – Admin update



We have established that this is a logged in user and this user will make a choice: “Update Patient Result”. Making changes and filling out the form fields is the next step and then it is a matter of whether there is an error or not. The “yes” arrow assumes that the user has an error and must validate the form, by ensuring that all fields are populated using the required format. The “No” arrow assumes that there is a “Update” button. The cylinder is our call to submit to the database and our outcome is to return to the Home page

### Lab result - Public



We have established that this is a logged in user and this user will make a choice: “Select Lab Result”. The user should be able to view an automatically generated lab report to their page. Choosing a Document format is the next step, if the user requires a downloaded document. Then it is a matter of whether there is an error or not. The “yes” arrow assumes that the user has an error and must try logging in again or will have to send a message to inform admin that there is a problem with the website. The “No” arrow assumes that the document is successfully downloaded into the selected format such as PDF or Excel, our outcome is to Log out or exit the page

## Wireframes

### Lab Result - Admin

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Patient ID \*

DOB \*

Gender  Male  Female \*

Test Type CA125

Result  \*

Result Description

Abnormal

Reference Range

Units

Donations

Error Window

The following errors were found

Patient ID Required

Date of Birth Required

Gender Required

Result Required

Illness outbreaks

Pay Bills

Map

Other

Footer

The form fields are directly based on the database. In this case each insert, update or delete is to a corresponding row in the database. Mandatory fields are indicated with a red asterisk.

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Navigation ...

Lab Results

Download PDF

PATIENT ID:  \*

PASSWORD:  \*

LOGIN

GH44 Male Liver Biopsy positive Range 110-250

CONTACT PHYSICIAN

Patient requires culture insufficient evidence for findings to be conclusive

Error Window

The following errors were found

Patient ID Required

Password Required

Log in Here

Illness outbreaks

Pay Bills

Map

Other

Footer

The report is generated directly from a row inserted into the database

## News Releases

The news releases feature is a means by which the hospital will be able to display on the website, latest hospital news & articles of current or past events or activities taking place with or at the hospital. From the client side website users will be able to search through or filter their search based on the date of news releases either past or current from information stored in the database. The news releases feature will have an administrative backend that will manage the news releases. On the administration backend side the user will be able to manage the form through insert, update and delete.

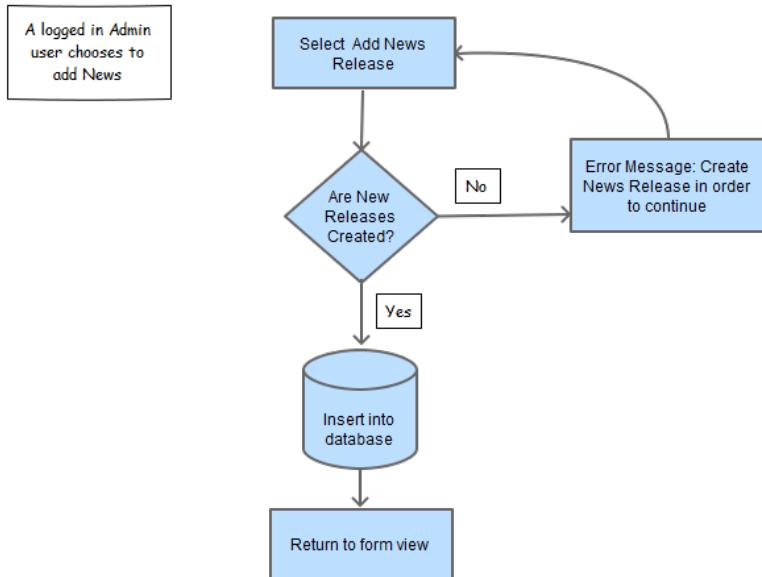
### Table

#### News Releases

Fields	DataType	Description
Date	Date	Date
Image	Text	This is the image representing the news/ event
NewsDetails	Varchar(max)	News
Department	Varchar(max)	The hospital's department
Publish Before	Varchar(max)	Publish date
Publish After	Varchar(max)	Publish date

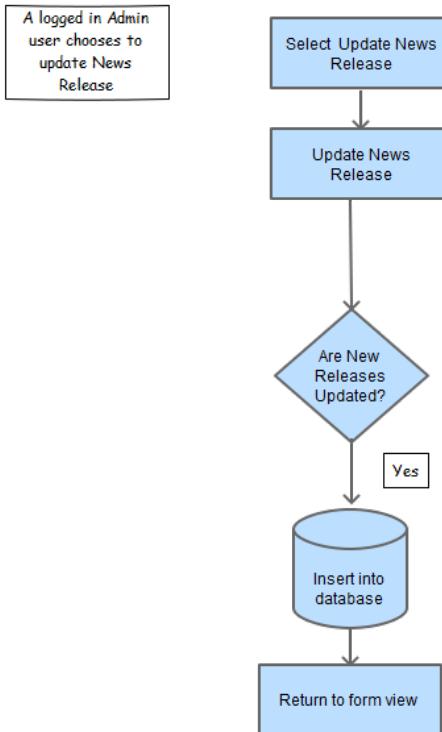
## Data Flow Diagram

*News Releases – Admin add*



We have established that this is a logged in user and this user will make a choice: “Add News Releases”. Creating News Releases is the next step and then it is a matter of whether News Releases have been created. The “No” arrow assumes that the user has not created News Releases and must compose News Releases, by ensuring that all fields are populated using the required format. The “yes” arrow assumes that there is an “Add” button. The cylinder is our call to add News Releases to the database and our outcome is to return to the form view.

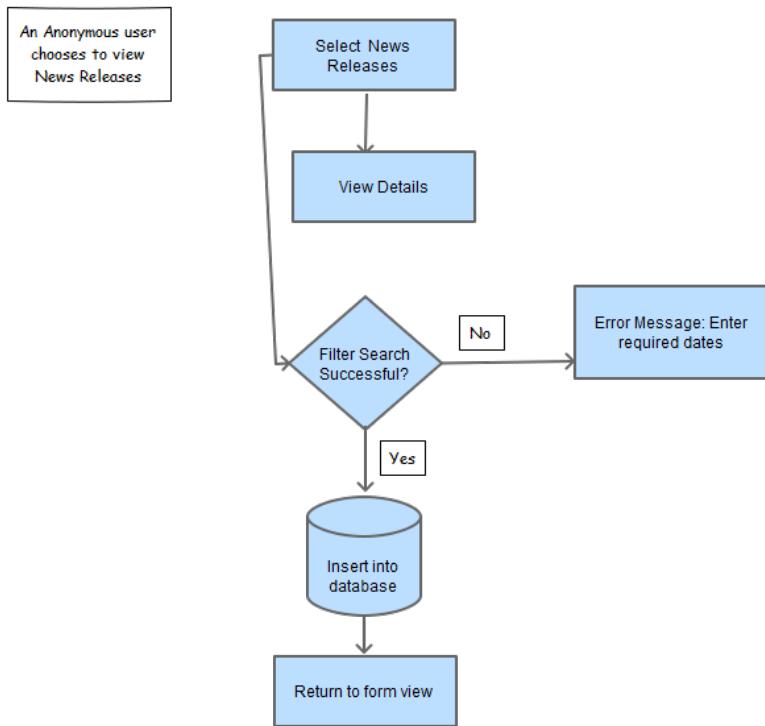
### News Releases – Admin update



We have established that this is a logged in user and this user will make a choice: “Update News Releases”. Editing News Releases is the next step and then it is a matter of whether News Releases

have been composed. The “No” arrow assumes that the user changed the decision of editing News Releases and there is a cancel button, the circle is our call to cancel the update. The “Yes” arrow assumes that there is an “Update” button. The cylinder is our call to add News Releases to the database and our outcome is to return to the form view.

### News Releases - Public



This user will “Select News Releases” or “Filter Results”. Viewing News Releases on the current page is the next step then it is a matter of whether the user filters through News Releases by date. The “No” arrow assumes that the user has not entered the dates needed for their specified search. The “yes” arrow assumes that there is an “Apply” button. The cylinder is our call to search News Releases in the database and our outcome is to return to the New Releases Page.

## Wireframe

### News Releases - Admin

A Web Page

Contact Information

Log in Here

Navigation ...

Welcome Admin

Date  \* Required fields

Department

News Event  \*

Url

Donations

Error Window

The following errors were found

Date Required

News Event Required

ADD UPDATE DELETE

Pay Bills

Map

Other

Footer

The form fields are directly based on the database. In this case each insert, update or delete is to a corresponding row in the database. Mandatory fields are indicated with a red asterisk.

News Releases - Public

The diagram illustrates a web page layout for 'Lake of The Woods' news releases. At the top, there's a header bar with browser controls (back, forward, stop, refresh), a URL field containing 'http://', and a search icon. To the right of the URL field is a 'Contact Information' link and a 'Log in Here' link.

The main content area features a logo placeholder and the title 'Lake of The Woods'. Below the title is a navigation bar with a 'Navigation' link and three dots. The main content is divided into several sections:

- January:** Lists 'Top Quarter of the Year.....' and 'L.O.T.H Accreditation.....'.
- February:** No items listed.
- March:** No items listed.
- Filter Results:** A sidebar with the following fields:
  - Publish Before:** Text input field containing '2000-1-1'.
  - Publish After:** Text input field (empty).
  - Category Filter:** A list of checkboxes:
    - Administration
    - Cardio
    - indeterminate
    - disabled
    - disabled selected
    - disabled indeterminate
  - Buttons:** 'APPLY' and 'RESET' buttons.
- Right-hand Side Panels:** Three vertical panels: 'Donations', 'Illness outbreaks', and 'Other'.
- Bottom Row:** Three rectangular boxes labeled 'Pay Bills', 'Map', and 'Other'.
- Footer:** A footer section containing the word 'Footer'.

## Donation

The donation feature is important part of hospital web site there are many factor. Main factor is that it generates revenue to hospital and this revenue can be used for the development of the hospital. The description of this feature is following

The donation button placed on the main page of the website and donation has its own section in website. Once user click on button user will be redirect to new form for its contact information. User should provide all required information for himself for this contact information user has all the responsibility to provide the correct and accurate information once user submit his contact information all information store in the database and for payment user has to redirect to PayPal system. All money transaction and its credit card information store on PayPal system. Once he made the payment he will receive an email notification and confirmation code for his transaction.

### Table

Contact Information

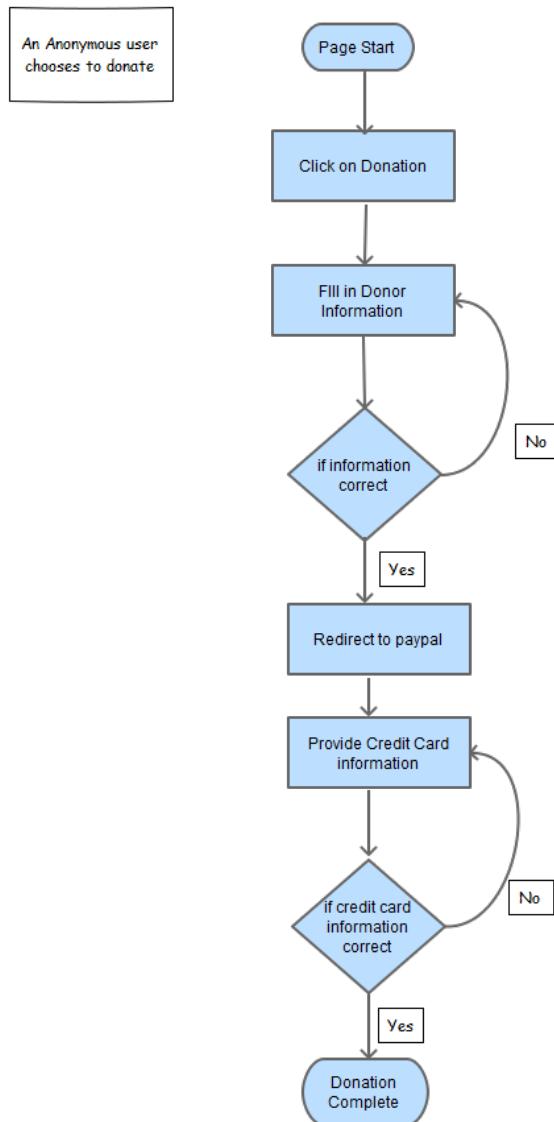
Column name	Type	Description
contactId *	int (primaryKey)	Unique identifier
firstName*	Nvarchar	First name of donor
lastName*	Nvarchar	Last name of donor
MiddleInitial	Nvarchar	Initial of donor
Donortype	Nvarchar	Type of donor
Company	Nvarchar	Donor company
streetNo*	int	Address of donor
city*	Nvarchar	Address of donor
country*	Nvarchar	Address of donor
province*	Nvarchar	Address of donor
zipCode*	Nvarchar	Address of donor
Email*	Nvarchar	Email of donor
phone*	Nvarchar	Primary phone
phoneWork	Nvarchar	Work phone

Donation

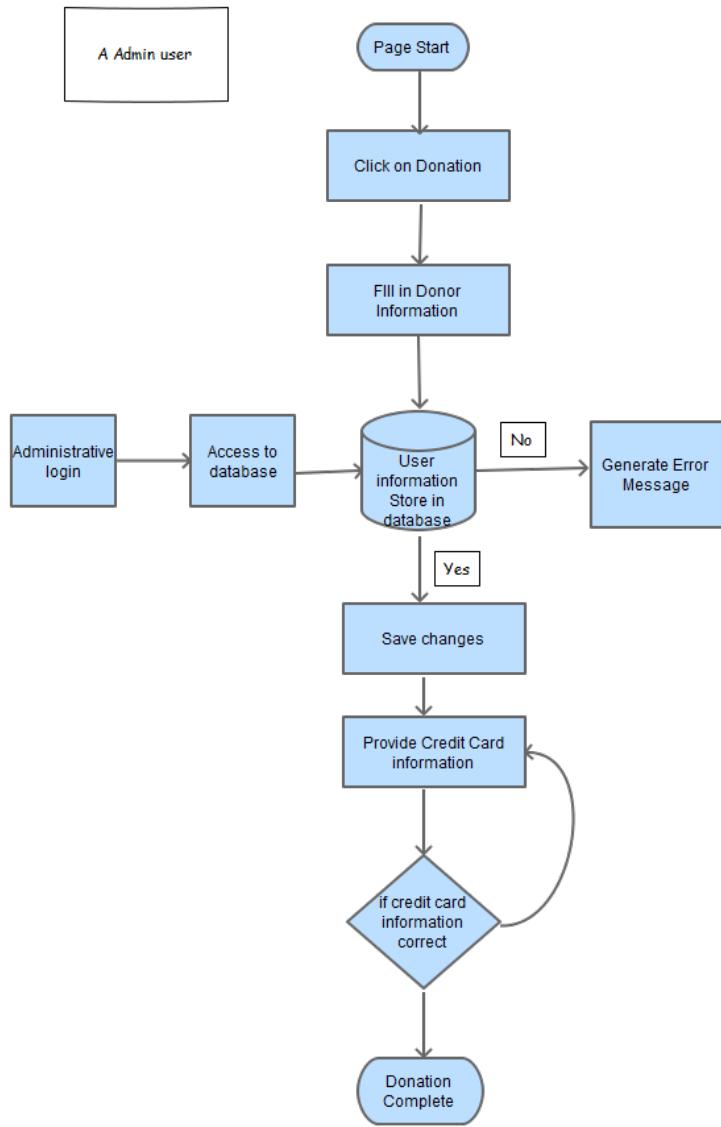
<b>Column name</b>	<b>Type</b>	<b>Description</b>
donarId*	Int (primaryKey)	Unique identifier
Amount*	int	Amount to be donated
donateTo	nvarchar	Receiver of donation
InspireYou	nvarchar	Inspiration
contactId	Int (foreginKey)	Contact Identification

## Dataflow Diagram

### Donations - public



### Donations -Admin



## Wireframe

### Donations – Public

A Web Page

http://

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

Title Text

First Name Text

Middle Name Text

Last Name Text

Donor Type  Individual  Organization

Company Text

Street Text

Zip Text

City Text

Country text goes here

Province text goes here

zip Text

email Text

Phone(Home) Text

Phone(Work) Text

Submit

**Donations - Admin**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

name lastname data dat

Content 1	Content 2Content 1	Content 2Content 1	Co...
Content 3	Content 4name	lastname	data
Content 1	Content 2Content 1	Content 2Content 1	Co...
Content 3	Content 4name	lastname	data
Content 1	Content 2Content 1	Content 2Content 1	Co...
Content 3	Content 4		

Edit Update Delete

Add New

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Available beds

This feature represents the availability of the beds in hospital. There is no priority to the user it's all depend upon availability of the rooms and beds. User can search online for availability but for reservation user must need to come to hospital and hospital staff will decides his patient need any further treatment or not . If not, user cannot get any type of room. There are three types of room available for patient

- Private
- Sami
- general

Private room has one bed in one room and one person can stay with patient. User has to pay extra money for private room. Semi room has two beds in one room. User has to pay extra money for semi room. General room has four beds in one room. It's free to patients and user do not need to pay for the room. The hospital staff reserve all the authority which patient need which room but user can ask them for other options.

### Table

#### Rooms

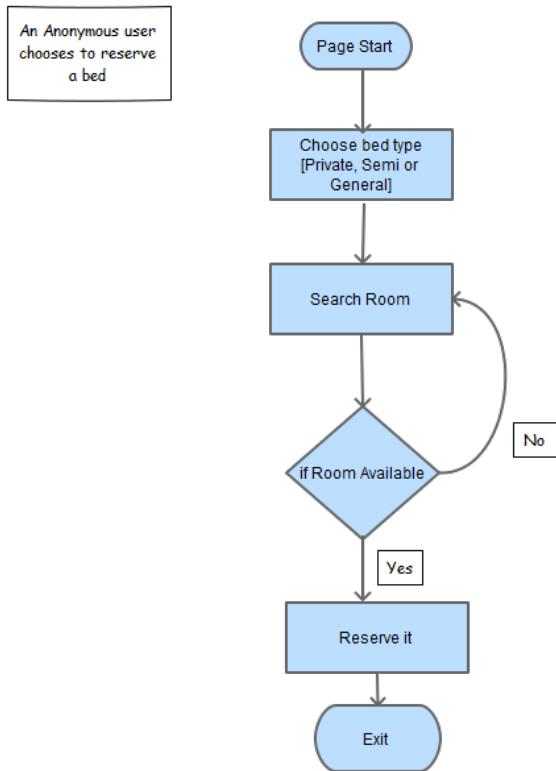
Column name	Type	Description
roomId	Int (Primary Key)	Unique identifier
roomNo	Int	Room number
roomType	Nvarchar	Type of Room
roomCapacity	Nvarchar	Capacity
RoomAvailability	Nvarchar	Available or not
comment		Any comments
roomReservation	nvarchar	Prior Reservations
reservationStartDate	datetime	Date of Reservations
reservationEndDate	datetime	Last date for Reservations

Beds

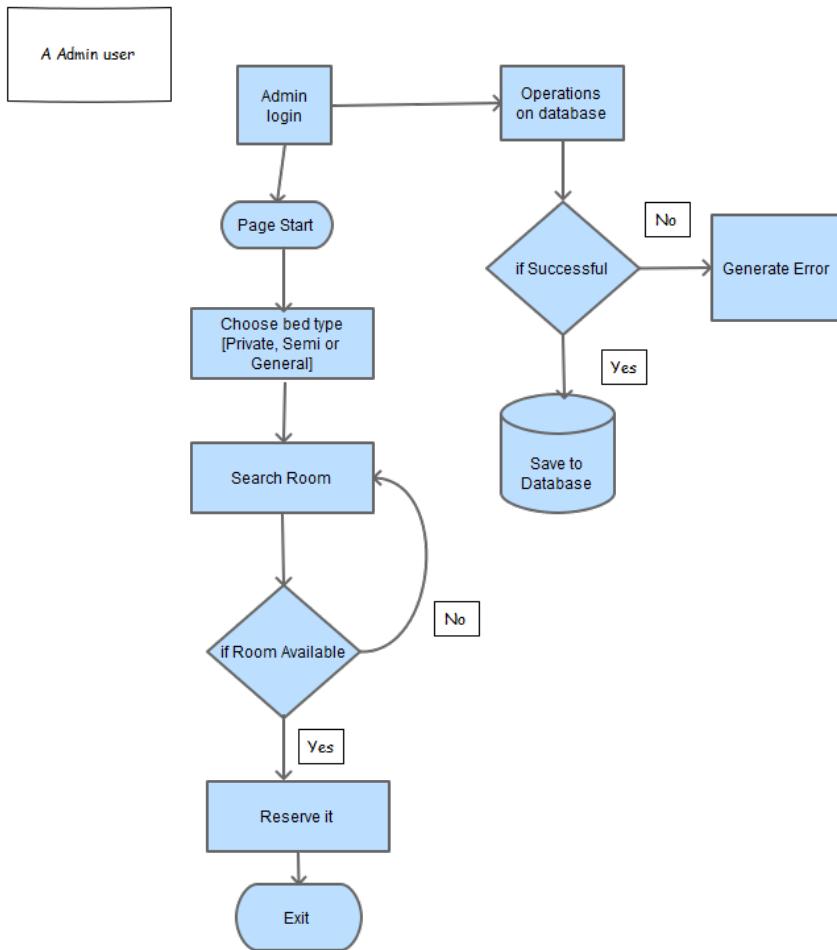
<b>Column name</b>	<b>type</b>	<b>Description</b>
bedId	Int(Primary Key)	Unique Identifier
bedAvailability	Nvarchar	Availability of beds
bedPosition	Nvarchar	Position
Reservation	nvarchar	Prior reservation
reservationStartDate	datetime	Reservation date
reservationEndDate	datetime	Reservation end date
roomId	Int (foreginKey)	Room Number

## Dataflow Diagram

### Available Beds - Public

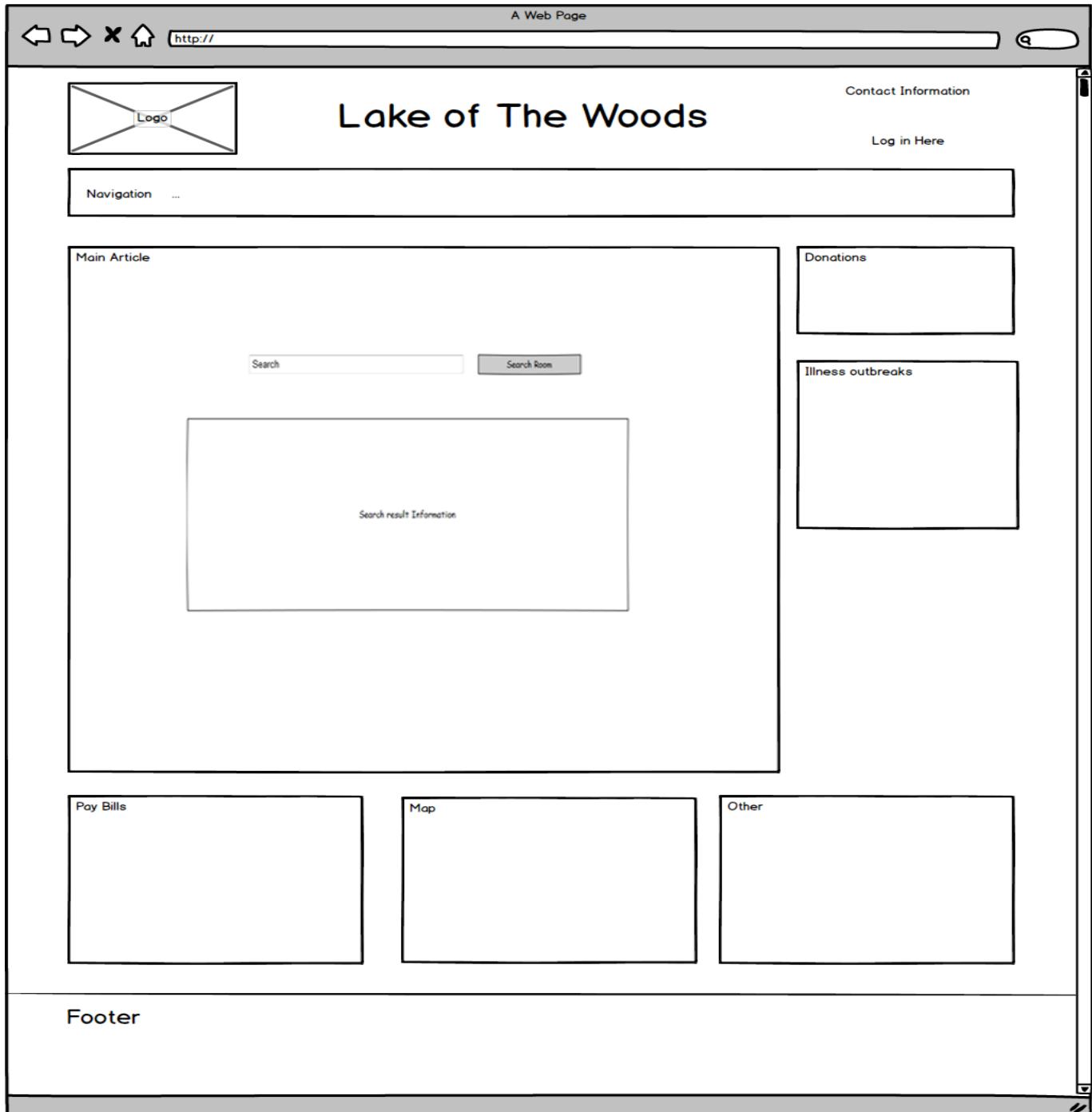


### Available Beds- Admin



## Wireframe

### Available Beds - Public



**Available Beds – Admin**

A wireframe diagram of a web page titled "Lake of The Woods". The page has a header with a logo, navigation links, and contact information. The main content area is labeled "Main Article" and contains a search bar, a large central box for "Search result Information", and a sidebar with booking buttons. To the right are boxes for "Donations" and "Illness outbreaks". At the bottom are links for "Pay Bills", "Map", and "Other". A footer section is also present.

A Web Page

http://

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

Search

Search Room

Search result Information

Reserv

Find More

Type

Booked

Available

Cancel

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Parking Ticket

Hospital website has feature to reserve parking spot. User is able to visit website and reserve parking. To do that he has to generate a parking ticket number and that parking number he has to show to parking operator. The operator will check if this number is valid or not if it's valid he will confirm that number. User can only use same number only one time.

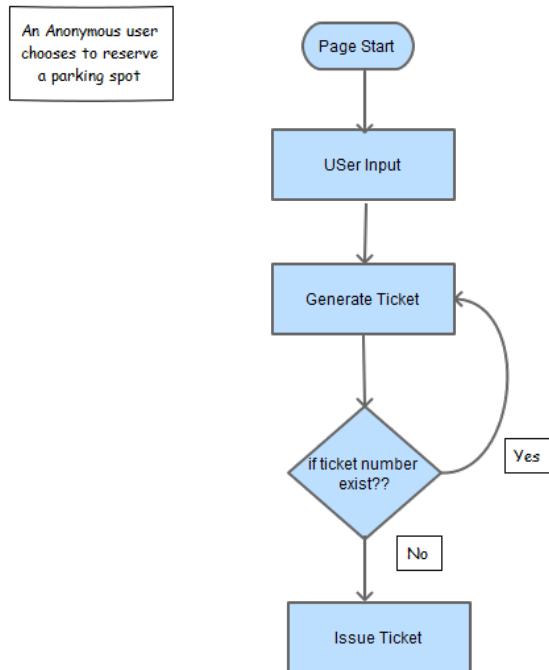
### Table

Credit Information

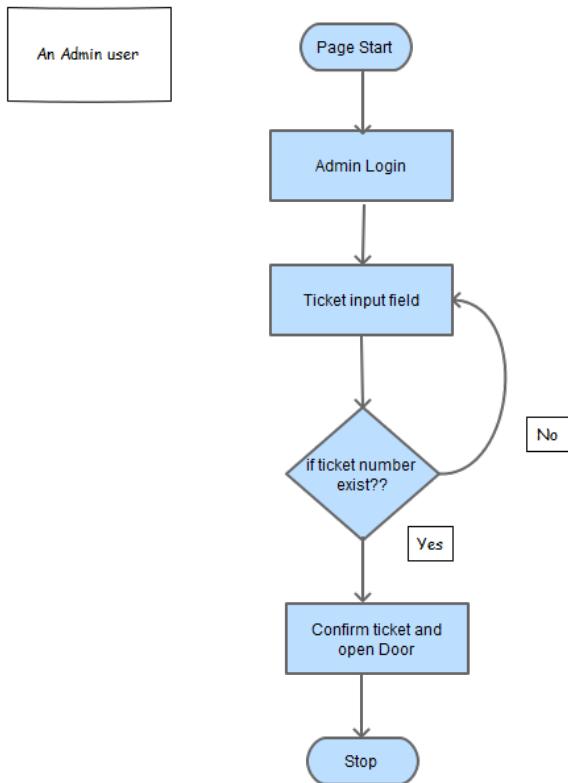
Column	Datatype	Description
TblTicket	type	Ticket Type
ticketId	Int (Primary key)	Unique identifier
ErrorNo	Navrchar	Error number
TicketNo	Number	Ticket number
TicketDate	datetime	Issue date

## Dataflow Diagram

### Parking Ticket - Public

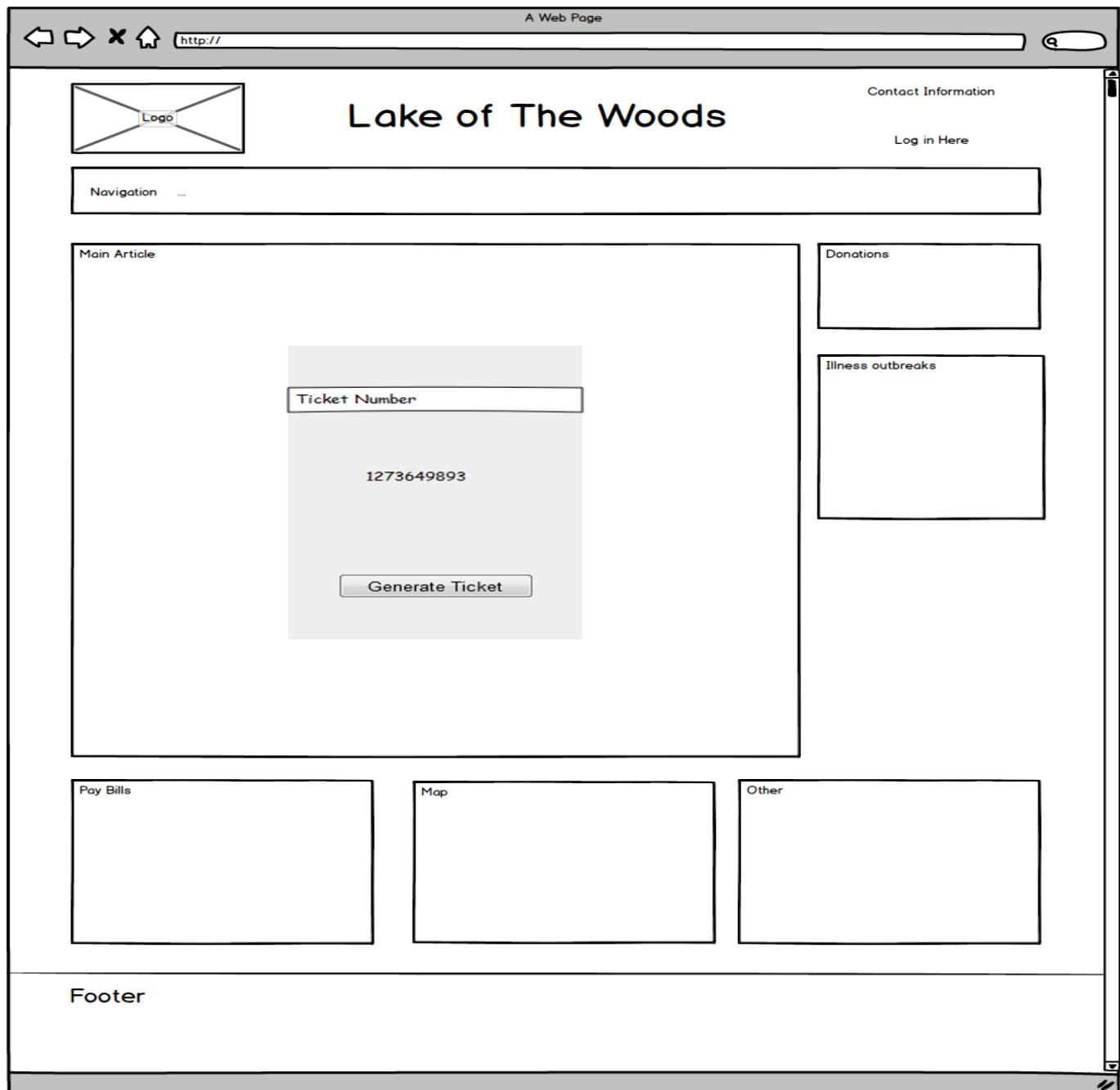


**Parking Ticket - Admin**



## Wireframe

### Parking Ticket - Public



Parking Ticket - Admin

A Web Page

http://

The wireframe depicts a web page layout for a parking ticket system. At the top left is a logo icon containing the word "Logo". To its right is the title "Lake of The Woods". On the far right of the header are links for "Contact Information" and "Log in Here". Below the header is a "Navigation" bar with three dots. The main content area is divided into several sections: "Main Article" on the left, which contains a large gray rectangular area with a white box labeled "63767367267" and a "Confirm Ticket" button; a "Donations" section on the right; and a "Illness outbreaks" section below it. At the bottom of the main article section is a form with fields for "Ticket Id" and "Ticket No", followed by another "Confirm Ticket" button. Below the main article are three smaller boxes: "Pay Bills", "Map", and "Other". The footer section at the bottom contains the word "Footer".

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Main Article

63767367267

Confirm Ticket

Ticket Id    Ticket No    Confirm Ticket

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Illness Outbreaks

The Illness Outbreaks feature is an informative feature that contains information on current illness outbreaks, (ie. Chickenpox, a flu going around), in the community, Ontario and or Canada. The purpose of the feature is to provide a place where people can go to read about the outbreak, learn about symptoms, treatments, precautions and preventatives. Any user coming to the hospital site will be able to see and access this information; no log in is required. All information that is known will be on display for each user to look through, and information will be sorted by where the illness outbreak is most prominent.

Visitors will see a box to the right called “Illness Outbreaks” and will be provided with a short description and a link to the page that contains the full details on the illnesses. This box will be on every page in a sidebar on the right of the page thus making it accessible to users wherever they are on the site.

The infection alert feature will have an administrative backend that will be managing the information on the outbreaks. The admin will add new illnesses that have broken out, add new found information on existing illnesses (treatments, recommendations from people who have had it) and remove illnesses once they are no longer a high concern to the public.

The last component of the feature will be a message form that users can submit any information they know about the illness that is not already available to users. For instance someone who has had the illness could recommend home remedies that they found helped cope with the illness. Any user who visits the site can input information, there is no login required; the purpose is for anyone who has information about an illness that is not already there can submit what they know to further help inform others looking at each illness. The form will request the users’ name, illness they are reporting on, and the information they wish to submit. This information will be sent to the database for the admin to look over, approve, and publish.

**Table**

Admin

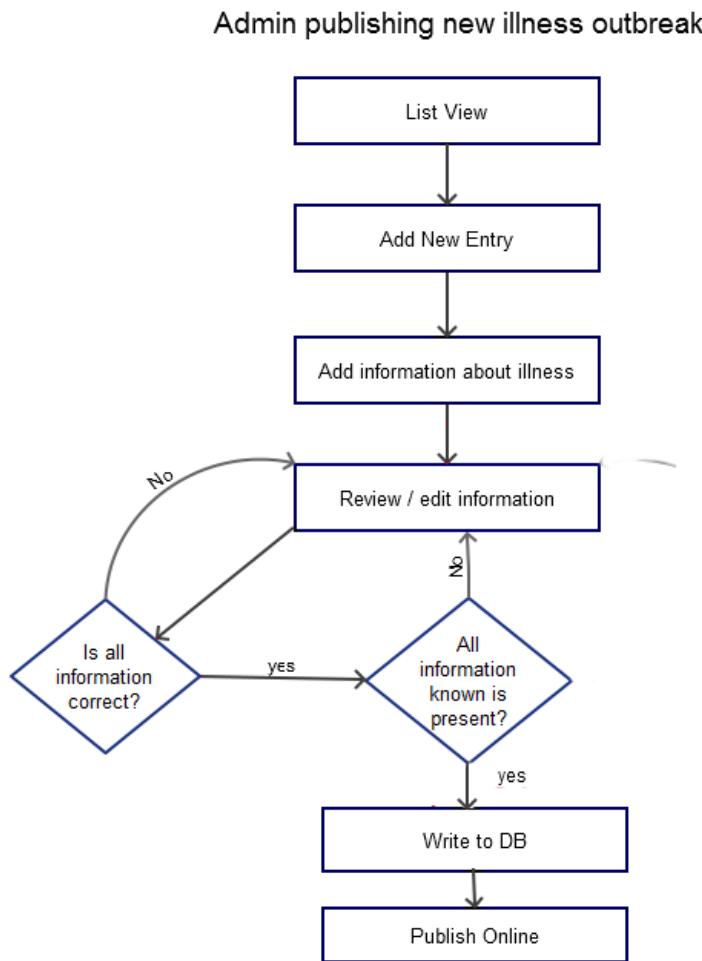
<b>Primary key</b>	<b>Numeric</b>	<b>Description</b>
Infection	Varchar(60)	Infection Name
Locations	Varchar(100)	Region that is being affected
Description	Varchar(100)	Description of illness
Symptoms	Varchar(100)	Known symptoms of illness
Preventatives	Varchar(100)	Known preventatives
Treatments	Varchar(100)	Treatments used
Recommendations	Varchar(MAX)	Recommendations submitted by users

Public Recommendation / missing information

<b>Primary key</b>	<b>Numeric</b>	<b>Description</b>
Name	Varchar(60)	Users name
Infection	Varchar(60)	Infection Name
Information Given	Varchar(MAX)	User's recommendation and information on illness

## Data Flow Diagram

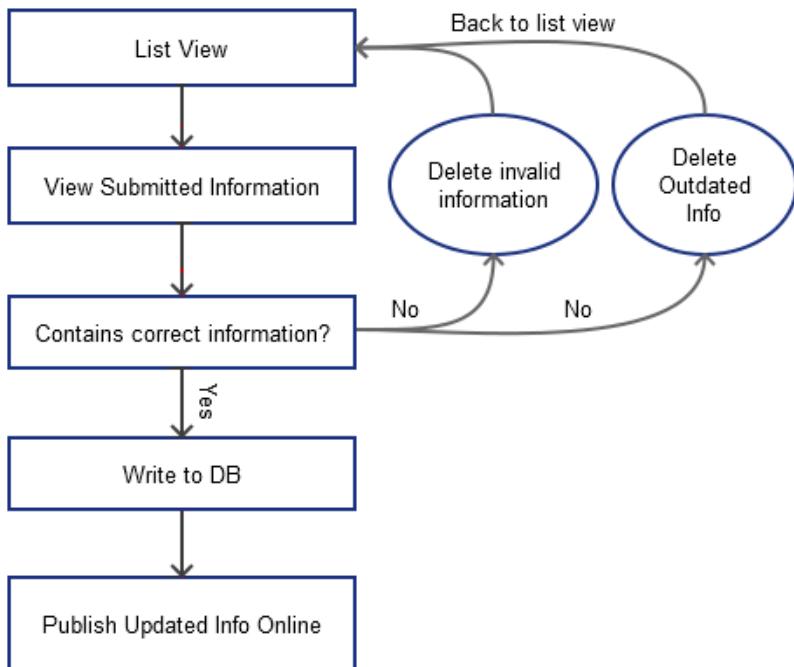
### *Admin*



This dataflow model goes through the steps an admin adding a new illness outbreak to the site. On the list view page for illness outbreaks the admin will choose to add a new entry. The admin will then add details known about the illness. After information is written the admin will edit the information, ensuring all information is correct, there was no information missed, and that there are no spelling errors or typos. Once the admin has finished editing they will commit the information to the database, thus publishing it online for users to see.

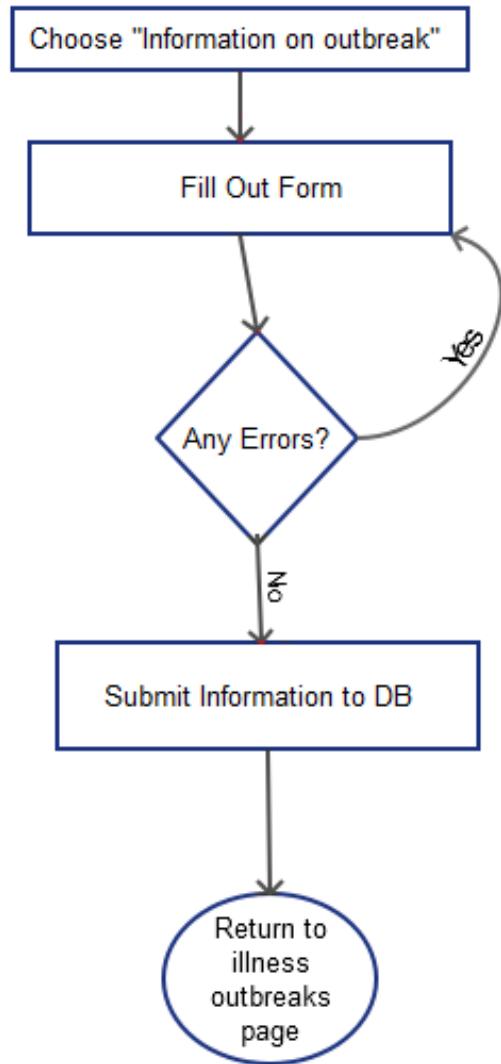
## Logged in Admin

### Reviewing Submitted Information on Illnesses



This dataflow model is straightforward as it is the process of an admin (an employee who is familiar with the current illnesses) reviewing information on illnesses submitted by users. The admin will choose to view submitted information from users, check that the information submitted is correct and if so add it to the existing information on the illness in the database. If a user submits information on an illness that is no longer a concern the admin may deleted the outdated information and return to list view. If a user submits incorrect information the admin will remove said information and return to list view.

## User Sending Information About an Illness Outbreak



This dataflow model shows the process of a user submitting information they may know about a particular illness. The user chooses “information on outbreak” and fills out a simple form stating what illness it is, and any information they have on it. Once finished filling out the form the user will choose to hit the submit button at the bottom of the form. After successful submission the user will be redirected to the illness outbreaks page.

## Wireframe

### Illness User View:

A Web Page

Logo

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Information about different illnesses

Kenora  
*info....*

Ontario  
*info....*

Canada  
*info....*

Donations

Illness outbreaks

Name

Illness Name

Information About An Illness

Submit

Pay Bills

Map

Other

Footer

**Admin View:**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin

Add New Illness

[Remove Illness](#)

Name:  Illness Name \*required

Date:  Date published \*required

Enter Location:  Region Affected (Kenora, Ont, Can) \*required

Add all information known about illness here... \*required

Submit

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Volunteer Signup

The volunteer sign up feature will allow people to sign up for volunteering at the hospital. It will be accessible to all users (no log in needed) and it will take the person(s) wishing to sign up through a simple process of filling out information.

The form will have required field that ask for the users' name, age, gender, email, phone number and reason for volunteering. The form will ask if they have ever volunteered for the hospital before; if the person has volunteered at the hospital before they will be asked to provide when they volunteered, and what they did.

There will be an optional section of the form where users can fill out more specific questions to provide a better idea of what they wish to do. For instance the form will provide options for how many hours the person is looking to volunteer for, specific dates they are available to volunteer, if there is anyone they want to volunteer with (if a friend or family member also signed up), what interests they may have, if they have any allergies that could be affected (ie. Allergic to chemical scents and perfumes), and if there is anything they do not want to do. The form will also provide a section to request for a specific department at the hospital to volunteer in.

The Volunteer Signup will have an administrative backend that will manage filled out and submitted volunteer signup requests. The admins will manage filled out and submitted volunteer signup requests. To manage these forms the admin will look over each submission, ensure each request has been filled out properly and send the approved volunteer signups to hospital administration for consideration. The admin will also be responsible for removing inappropriate forms and any outdated forms.

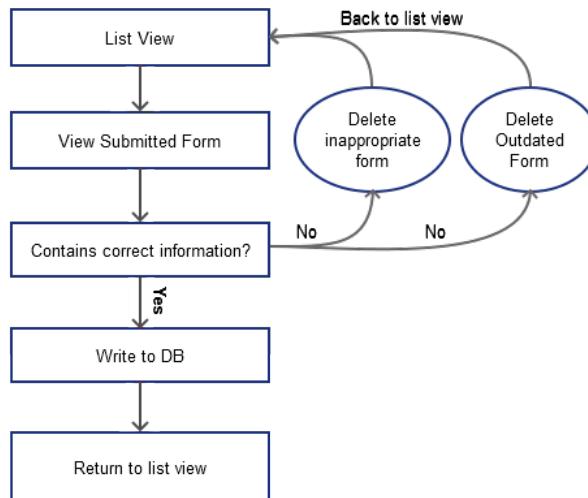
**Table**

Primary key	Numeric	Description
Full Name	Varchar(60)	Full name of person signing up
Age	Numeric	Age of person
Gender	Varchar(10)	Gender of person
Email	Varchar(100)	Email hospital can contact person at
Phone	Numeric	Phone number hospital can contact person at
Reason	Varchar(MAX)	Reason person is signing up to volunteer
Volunteer Before	Varchar(5)	Checking if the person signing up has ever volunteered at hospital before
If Yes	Varchar(100), Allow Nulls	If person has volunteered before, what did they do there
If Yes Date	Date, Allow Nulls	When did they volunteer before
No. of Hours	Numeric, Allow Nulls	How many hours is the individual looking for
Dates Avail	DateTime, Allow Nulls	Dates the person is available to volunteer (if any)
Person Request	Varchar(60), Allow Nulls	Request to volunteer with someone else who has signed up (ie. Friend or family member)
Interests	Varchar(100), Allow Nulls	Any specific interests in the hospital that the user may have
Allergies	Varchar(100), Allow Nulls	Any allergies that the individual may have that will affect them while volunteering
Refusal	Varchar(100), Allow Nulls	Any departments of the hospital that the person does not want to volunteer in
Dept. Request	Varchar(60), Allow Nulls	Any departments of the hospital the person may be interested in volunteering in.

## Data Flow Diagram

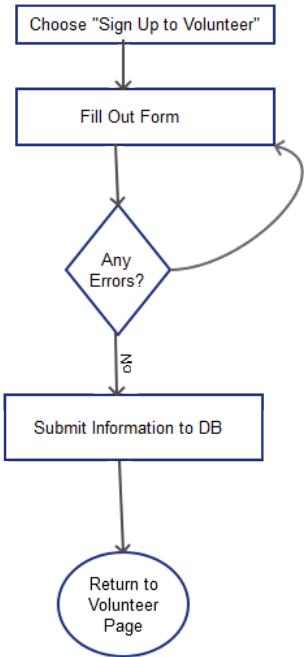
### Volunteer

Logged in Admin Reviewing Submitted Forms



The process of an admin reviewing submitted forms is straight forward. The admin starts at a list view of all submitted forms then selects a newly submitted form. The admin then reviews the form to ensure all information has been properly filled out, and if it has been done correctly the admin then commits the form to the database. If a form is filled out incorrectly or inappropriately (ie. Someone submits inappropriate information as a joke) the admin can delete the form and return to list view. The form page gives people the choice to select specific days they are available to volunteer, the admin can also delete those forms that have become outdated.

Volunteer Sign Up  
User



Volunteer sign up is a simple process in which the user chooses to go to the sign up page. The user then chooses to “Sign Up to Volunteer” and is then required to fill out information on a form. When the user is finished and no error messages are displayed (form passes validation) the information will be submitted to the database and the user will be redirected back to the volunteer page.

## Wireframe

Form for volunteer sign up (no log in required):

A Web Page

The wireframe shows a web page titled "Lake of The Woods". At the top left is a logo. To the right are links for "Contact Information" and "Log in Here". Below the title is a navigation bar with a "Navigation" link. The main content area is titled "Volunteer Sign Up Form". It contains various input fields: Name, Age, Gender, Email, Phone, Reason for volunteering, Number of Hours, Have you volunteered here before?, If yes, when?, What did you do?, Dates you're available, Allergies, Dept. you are interested in, and Dept. you refuse to work in. A "Donations" section is also present. An "Error Window" is overlaid on the form, containing three error messages: "Please Fill Out Name", "Please Fill Out Age", and "Please Fill Out Gender", with an "OK" button. At the bottom is a "Submit" button. The footer contains links for "Pay Bills", "Map", and "Other".

Lake of The Woods

Contact Information

Log in Here

Navigation ...

Volunteer Sign Up Form

Name: \*required

Age: \*required

Gender: \*required

Email: \*required

Phone: \*required

Reason for volunteering: \*required

Number of Hours:

Have you volunteered here before? \*required

If yes, when?

What did you do?

Dates you're available:

Allergies: \*required

Dept. you are interested in:

Dept. you refuse to work in

Donations

Error Window

Please Fill Out Name

Please Fill Out Age

Please Fill Out Gender

OK

Submit

Pay Bills

Map

Other

Footer

**Admin View**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin!

[List of Forms](#)

[Remove Forms](#)

Name: Danielle Stirling
Age: 22
Gender: Female
Email: email@email.com
Phone: 519-345-4567
Reason: HighSchool Hours
Volunteer before: No
Yes: N/A
Date: N/A
Number of Hours: 5

<<Prev 1 2 3 4 5 6..... Next>>

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## Visiting Specialists Calendar

The Visiting Specialists Calendar feature provides users with dates and times that specialists will be coming to the hospital. Without logging in a user will be able to view if there is a specialist coming to the hospital on a specific day, however to request an appointment the user will be required to log in to see available times and make a request. The Visiting Specialists Calendar will be accessible via secondary navigation. Users can go under the Patient Care option and the calendar can be found in the dropdown section of the menu.

The Visiting Specialists Calendar will provide an easy way for users to know if a particular specialist is going to be at the hospital without having to call the hospital administration. There will be time slots set aside by hospital administration for users that want to book appointments online, but for more specific concerns users will still have to contact the hospital.

The administrative backend will manage the Calendar. The admin will be responsible for adding specialists to the calendar, including the time the specialist will be there, appointments available, and passing along appointment requests to appropriate hospital administrative persons. The admin will also be responsible for removing specialists from the calendar if they cancel, removing appointments that are no longer available, and adding appointment times that open up.

**Table**

Primary key	Numeric	Description
Entry Date	Date	Days that have appointments
Time	Time	Time specialist will be at the hospital
Specialist	Varchar(100)	Specialist name
Appointments Avail	DateTime	Available appointments for visiting specialist

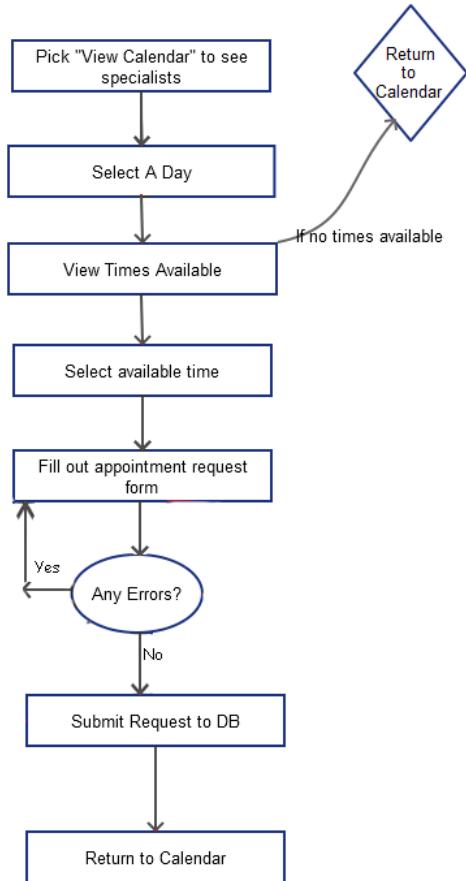
Appointment Request Table

Primary key	Numeric	Description
Appointment Request	DateTime	Selected appointment from list of available appointments
Full Name	Varchar(60)	Users full name
Phone	Numeric	Users' phone number the hospital can contact them at
Email	Varchar(60)	Users' email to send confirmation of appointment request

## Data Flow Diagram

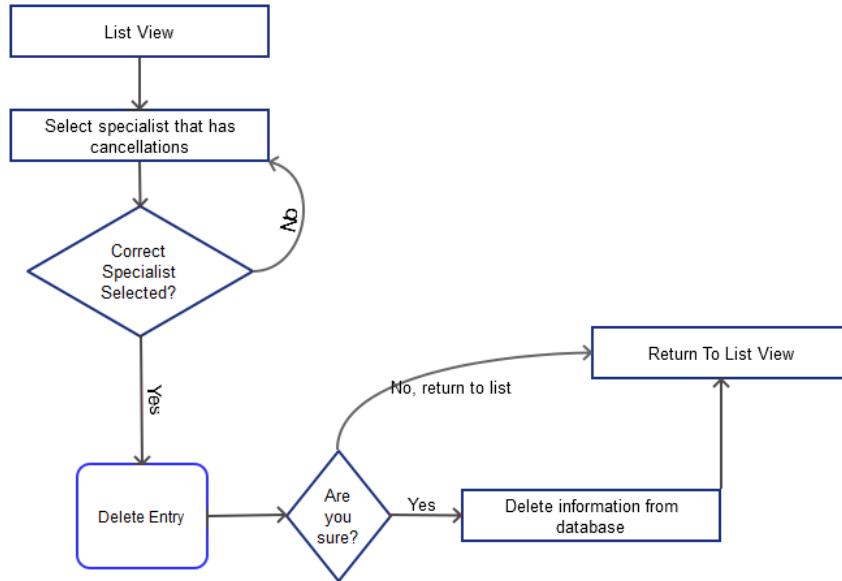
### Visiting Specialists Calendar

Logged In User Sending Appointment Request



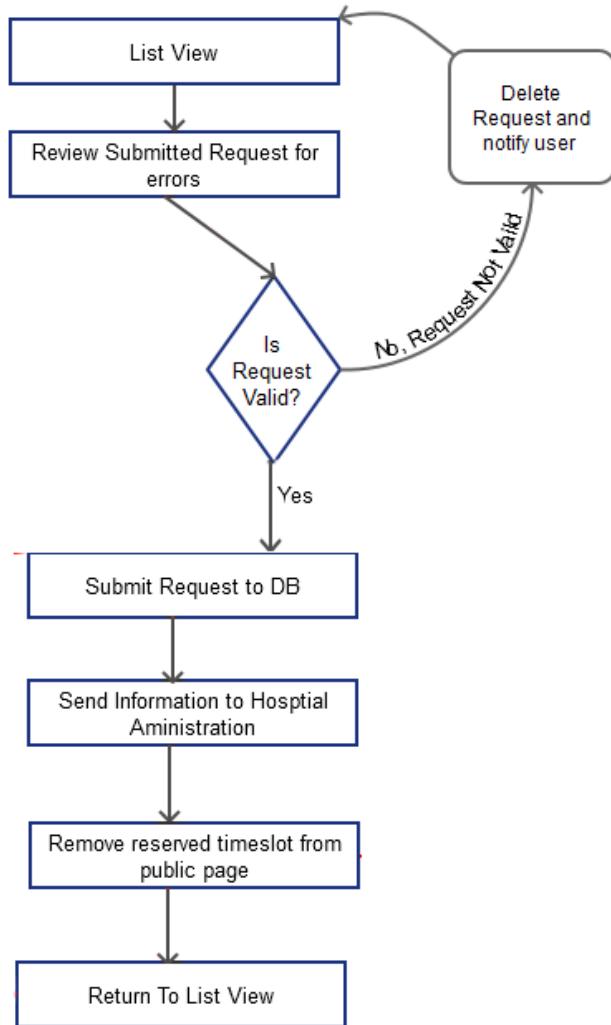
This dataflow model goes through the process of a logged in user booking an appointment online. The user would choose to view the specialist calendar. Next the user would choose what day they would like to view and then view the appointment times available for that day. The user may then look through the available times and select a time and fill out the appointment request form. Validation will ensure user fills out all fields, thus when the user has done so their request will be submitted to the database.

### Logged In Admin Removing Specialist (Cancellations)



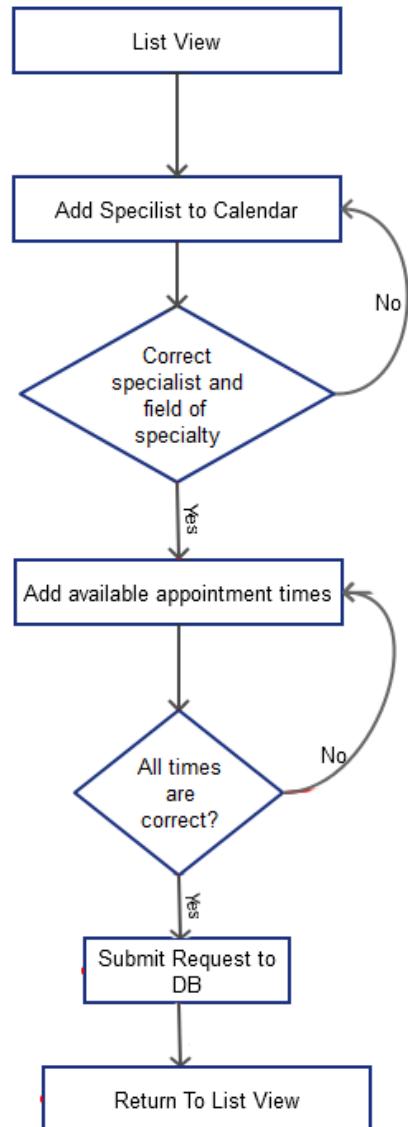
This dataflow represents the progression of an admin removing a specialist that is already in the calendar. For whatever reason the specialist has cancelled and it is the admin's duty to remove the specialist. The admin would start at a list view of all specialists currently in the database and select the desired specialist. After the admin select the correct specialist they will be free to delete the information from the database and then return to the updated list view.

### Logged In Admin Reviewing Appointment Requests



This dataflow model demonstrates the process of an admin reviewing user appointment requests. The admin would start at the list view of submitted requests and view any new appointment requests. The admin will be checking to ensure that the user filled out all information correctly and selected a time that is available; if appointment request meets requirements then the admin will submit the request to the database, send the appointment to the hospital administration and remove the newly reserved appointment time slot from the times listed as available online. If user has filled out information incorrectly than the admin will delete the request from the database and send a notification to the user who submitted the request.

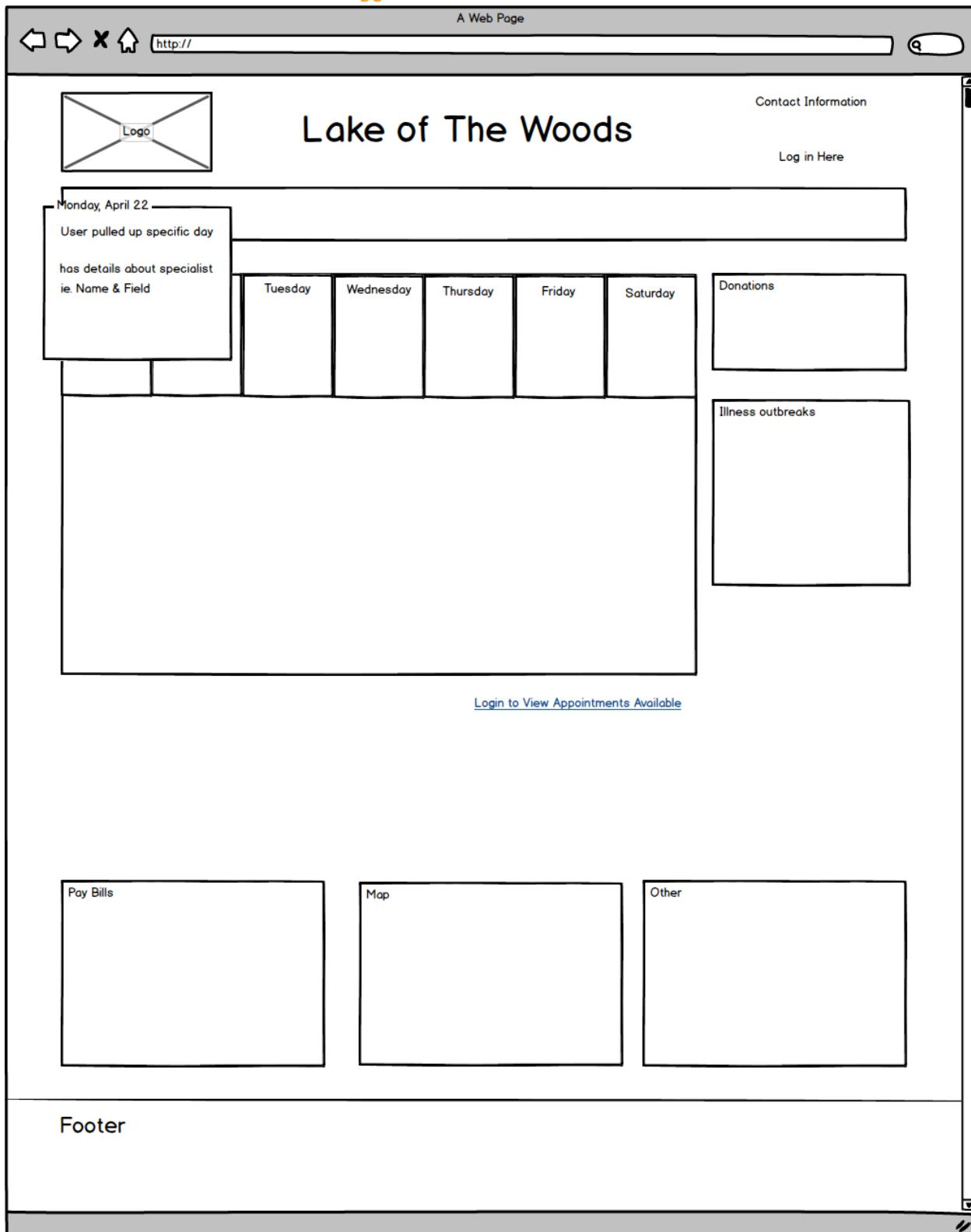
### Logged In Admin Adding Specialist & Dates/Times



This dataflow model goes through the admin process of adding a specialist and available appointment times for that specialist to database to be displayed online. The admin again begins at the list view of all specialists and available appointment times and chooses to add a specialist to the calendar. The admin will have to determine if they have entered the correct specialist and their field of expertise (ie. Cardiologist). Next the admin will enter the available appointment times set aside for booking appointments online. After entering appointment times the admin would check to ensure all times are correct; when all times are correct the information will be committed to the database.

## Wireframes

*Calendar view when user is not logged in:*



*Calendar when user is logged in:*

The wireframe diagram illustrates a web page layout for a medical facility named "Lake of The Woods".

**Header:** A Web Page, http://, Logo.

**Main Content Area:**

- Logo:** A square logo with a stylized 'X' or 'V' shape inside.
- Title:** Lake of The Woods
- User Interaction:** Contact Information, Log in Here.
- Calendar:** A grid showing days from Monday, April 22, to Saturday. The first column (Monday) contains:
  - Monday, April 22
  - User pulled up specific day
  - has details about specialist Name & Field
  - List of available appointment times
- Weekdays:** Tuesday, Wednesday, Thursday, Friday, Saturday.
- Right Sidebar:** Donations, Illness outbreaks.

**Booking Form:** Book an Appointment, with fields for Name, Specialist, Select Available Time (dropdown), Email, Phone, and Submit.

**Footer:** Pay Bills, Map, Other.

**Admin View**

A Web Page

http://

Logo

# Lake of The Woods

Contact Information

Log in Here

Navigation ...

Welcome Admin!

Add New Specialist

[Add Specialist](#)

[Remove Specialist](#)

Name:  Specialist Name \*required

Enter Field:  Specialist Field \*required

Enter Times Available

Specialist #1

Appointment Time Available	<a href="#">Remove</a>
Enter New Time....	
Enter New Time....	

<<Prev    1    2    3    4    5    Next>>

Donations

Illness outbreaks

Pay Bills

Map

Other

Footer

## **11. Development Plan**

The website is almost completed. The Mobile Responsive aspect needs an additional week in order to be completed.

## 12. Maintenance Plan

It is unanticipated that the site will need heavy maintenance once deployed. However, it must be recognized that as standards and external libraries and APIs change, this may cause issues with the website. Though unlikely, the following may cause issues as new versions and updates are released:

- jQuery
- CSS3
- PayPal
- Google Maps API

In the event issues arise due to the updating or changes of the above mentioned, the client will receive full support to resolve the issues. Additionally, the development team will provide a 90 day warranty period in which we will provide full Technical Assistance & Support via Email or Telephone. The Content Management System, enables administrators to make routine adjustments, this enables easy maintenance of website's content. For example, over a period of time, old invoices and transactions can be removed from the pay bill feature or hospital directions can be added or removed from the database to name a few.

### **13. Handover Plan**

The website will be hosted from GoDaddy. The client will be provided with initial administrative login credentials upon completion. A two week period is scheduled in order to provide functionality training to administrators and other users of the website. Training will ensure that users who are responsible for the content management are fully knowledgeable, with the ability to use the website effectively. During the training period and going live, 24 hour technical assistance, will be available via phone or email.