



Technical Specification
produced by www.robswan.com

Rob Swan Consultancy Site

v1

Edit history

No previous versions

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Client

Rob Swan

To check that this version of the specification has been approved by the client and is the latest version you can visit the following URL:

<http://www.robswan.com/check/1/v1>

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Introductory notes

How to read this document

This document is divided into three sections:

- Vision statement
 - The shortest possible explanation of what the site needs to do in plain English
- Requirements list
 - A list detailing exactly what the site needs to do
- Technical specification
 - A detailed technical blueprint for achieving the requirements list

What is not included in this document

This document does not stipulate any of the aesthetic design considerations of the site. This is a job for the designer.

This document does not stipulate any particular technology for producing the site, it is deliberately language agnostic. This is a job for the programmer.

The most important thing to understand

If something is not specifically listed in this document, assume it is not going to be included in your finished project.

Vision statement

The website is being launched parallel to the client establishing a new business providing technical specifications for websites.

The site will serve as a tool for managing and accessing the PDF specifications associated with projects.

It will also serve as a tool for promoting and selling that new business concept and the individual behind the business.

Requirements list

Page management

1. The site allows me to edit information pages
 - (a) I can edit the raw HTML code for the content area of these pages
 - (b) I can also use a WYSIWYG editor
2. These pages are
 - (a) Information for the public
 - (b) Information for web developers and designers
 - (c) Sample documents
 - (d) Prices
 - (e) About Rob Swan
3. People can navigate to these pages from the main site navigation
 - (a) I do not need to control their position
 - (b) I do not need to add additional pages
 - (c) I do not need to delete existing pages
4. I can edit the name of these pages, and this will change the name used in the site navigation
5. I can edit the meta-description and title tag for these pages for SEO purposes

Users

6. Visitors can create a user account from the front end of the website. They need to enter:
 - (a) first name
 - (b) last name
 - (c) email address
 - (d) username

(e) password

7. No two users can have the same username OR email address

8. Users can log in using their username and password

9. If users forget their password there is a forgotten password form

(a) This will email them a link to their email address and allow them to reset their password

10. Users can change their own passwords

11. I can add, edit and delete users

Projects

12. I can create new projects

(a) A project has a name, creation date and owner

13. I must assign one user as the owner of each project

14. I can additionally assign any other number of users to a project

Specifications

15. I can create any number of specifications which are each assigned to a project

16. A specification consists of:

(a) a PDF file

(b) a date

17. Old specifications aren't deleted, they are all kept for reference

Users home screen

18. When users log in they will see a list of projects they own or are associated with. These will link to the project details page.

Reporting deviations from specification

19. Anybody who owns or is associated with a project can report a

deviation from a specification by filling out a form

Approving specifications

20. The owner of a specification must approve it after it is uploaded by completing a form to say they are happy for it to be used as the current specification

Project details page

21. The project details page will show all specifications for a project, in descending date order.

22. For each specification it will display:

- (a) Whether the specification has been approved
- (b) Whether the specification has had deviations reported
- (c) Whether the specification is the current specification

23. The current specification is highlighted very clearly

Specification quick check

24. Each specification must have a unique URL which, without requiring the user to log in, will display whether it is the current approved specification or not. (This link will be printed on the cover of each specification)

Email notifications

25. For projects they own or are associated with users will be emailed whenever:

- (a) a new specification is created
- (b) a user reports a deviation
- (c) a new specification is approved

Blog

26. I can add new posts

- (a) A post contains:
 - i. A title

ii. Content

iii. A date

(b) I can edit the raw HTML code for these posts

(c) I can also use a WYSIWYG editor

27. I can delete posts

28. I can edit posts

29. Posts must be marked as 'published' before they appear on the site

30. There is an RSS feed for the blog

31. People can't comment on my posts

Technical Specification

Functional database structure

This is not intended to be comprehensive or inflexible, the job of the final database design is left for the programmer. The fields listed here contain essential data central to writing the technical specification in a cohesive manner.

The terminology fields, rows, and tables will be used in the document, but how this data is stored is entirely up to the developer.

- **users**
 - **users id**
 - **first name**
 - **last name**
 - **email address**
 - **username**
 - **password**
 - **is admin**
- **projects**
 - **projects id**
 - **name**
 - **users id of owner**
 - **date created**
 - **associated users ids**
- **specifications**
 - **specifications id**
 - **projects id**
 - **date created**
 - **approved**
 - **deviated**
- **blogs**
 - **blogs id**
 - **name**
 - **content**
 - **date**
 - **is published**
- **pages**
 - **pages id**
 - **name**
 - **content**
 - **meta-title**

- **meta-description**

Functional site map

The divisions presented in the site map below have been created for purely functional reasons. The functional roles are a requirement of this project, however the designer / developer may wish to arrange these functional sections in a different manner.

Home

A custom designed page over which I have no control.

Information for the public

Displays the **name**, **content**, **meta-title** and **meta-description** set in the **pages** table for the **page id** that corresponds to this page.

Information for web developers and designers

Displays the **name**, **content**, **meta-title** and **meta-description** set in the **pages** table for the **page id** that corresponds to this page.

Sample documents

Displays the **name**, **content**, **meta-title** and **meta-description** set in the **pages** table for the **page id** that corresponds to this page.

Prices

Displays the **name**, **content**, **meta-title** and **meta-description** set in the **pages** table for the **page id** that corresponds to this page.

About Rob Swan

Displays the **name**, **content**, **meta-title** and **meta-description** set in the **pages** table for the **page id** that corresponds to this page.

Login

Has access conditions:

- Only display this page if the visitor is not logged in.
 - If the visitor is already logged in redirect to the **projects list** page.

Contains a form:

- username (text)
- password (text)

- login (button)
 - Perform error checking
 - Username and password must match a single row from the **users** table
 - If error checking fails
 - display the errors
 - If error checking passes
 - the visitor is logged in and this is saved as a persistent state (referred to throughout the rest of this specification as 'logged in').
 - Link to the **projects list** page

Contains a button:

- Register
 - Links to the **register** page

Contains a button:

- Forgotten password
 - Links to the **forgotten password** page

Logout

Visiting this page removes the persistent state which indicates that the user is logged in and return them to the **login** page.

Register

Contains a form:

- name (text)
- username (text)
- email (text)
- confirm email (text)
- password (text)
- confirm password (text)
- register (button)
 - Performs error checking
 - all forms on the field are required.
 - email address must be valid format
 - email must match confirm email

- **username** and **email** must not exist for any other records in the **users** table
- password must be at least 5 characters long
- confirm password must match password
- If error checking fails
 - display the errors
- If error checking succeeds
 - add **name**, **username**, **email** and **password** as a new row in the **users** table
 - perform same action performed on **login** page in the event of success.

Forgotten password

Contains a form:

- username or email (text)
- reset my password (button)
 - Perform error checking
 - **username** and **email** must match a single row from the **users** table
 - If error checking fails
 - display the errors
 - If error checking succeeds
 - Send an email containing a link to the **email** address from the corresponding **users** row which allows the visitor to access the **change password** page without already being logged in

Change password

Has access conditions:

- Display this page if the visitor is logged in OR Display this page if the visitor has followed the link sent in the email from the **forgotten password** page.
 - If these conditions are not met redirect them to the **login** page.

Contains a form:

- password (text)
- confirm password (text)

- change password (button)
 - Perform error checking
 - password must be at least 5 characters long
 - password and confirm password must match
 - If error checking fails
 - display error messages
 - If error checking succeeds
 - update the **password** field for the corresponding row in the **users** table

Projects list

Has access conditions:

- Only display this page if the user is logged in.
 - If the visitor is not logged in take them to the **login** page.

Displays a list of all projects from the projects table where:

- the visitor's **user id** corresponds to the **users id of owner** or the **associated users ids** for the **project**

Contains a button next to each project:

- View details
 - Links to the **project details** page passing the **projects id** of the **project**

Project details

Has access conditions:

- Only display this page if the user is logged in
 - If not redirect to the **login** page.
- Only display this page if the visitor's **user id** corresponds to the **users id of owner** or the **associated users ids** for the **project**
 - If not the display an error
- This page must be passed a **projects id**
 - If it is not an error will be displayed

The page will display all specifications for the provided **projects id** in descending date order. Against each specification it will display:

- If the specification has been approved
- If a deviation has been reported for the specification

If the visitor's **users id** is the **users id of owner** for the **project** AND the current specification has not yet been approved then contains a button:

- Approve this specification
 - links to the **approve a specification** page and passes the **specification id** for the current specification

Contains a button:

- Report a deviation
 - links to the **report a deviation** page and passes the **specification id** for the current specification

Approve a specification

Has access conditions:

- Only display this page if the user is logged in
 - If not redirect to the **login** page.
- This page must be passed a **specification id**
 - If it is not then display an error
- Only display this page if the visitor's **user id** corresponds to the **users id of owner** or the **associated users ids** for the **project**
 - If it is not then display an error
- Only display this page if the specification is not already approved
 - If it is then display an error

Contains a form:

- I agree to statement (checkbox)
- Password (text)
- Approve (button)
 - Perform error checking
 - Checkbox must be ticked
 - Password must be correct
 - If error checking fails the error messages are displayed
 - If error checking succeeds the specification is marked as approved

- An email is sent out to the **users id of owner** and all of the **associated users ids** for the **project**

Report a deviation

Has access conditions:

- This page must be passed a **specification id**
 - If it is not an error will be displayed
- Only display this page if the user is logged in
 - If not redirect to the **login** page.
- Only display this page if the visitor's **user id** corresponds to the **users id of owner** or the **associated users ids** for the **project**
 - If it is not then display an error
- Only display this page if the specification is the current approved specification
 - Display an error if this is not the case

Contains a form:

- I agree to statement (checkbox)
- Report deviation (button)
 - Perform error checking
 - Checkbox must be ticked
 - If error checking fails
 - Display an error message
 - If error checking succeeds a deviation is flagged
 - An email is sent out to the **users id of owner** and all of the **associated users ids** for the **project**

Quick check page

Has access conditions:

- This page must be passed an **projects id** and **specifications id**
 - If these two variables are not passed then an error will be displayed.

The page will check whether the specification id given is the latest approved specification for the projects id given

- If it is it will display an 'okay' message.
- If it is not it will display an advisory message suggesting

the user logs in to download the latest version.

Rob's Blog

This page may be passed one of four sets of variables:

- Year
- Year and Month
- Year Month and Date
- An identifier for a specific blog post

Based on these variables any number of blogs will be listed based on whether the date and / or identifier matches the **date** for that row in the **blogs** table.

The displayed items will display the **name**, **content** and **date** fields from the **blogs** table.

This page will also display links to all 'Year and Month' combinations where a post exists.

This page will also display links to the most recent 5 posts.

RSS Feed page

The RSS feed page must output an XML feed of the most recent 10 blog posts in RSS 2.0 format.

Manage users list

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a button:

- Add a user
 - Links to the **manage users add** page.

Displays a list of all **users**. Against each item display:

- Edit
 - Links to **manage users edit** page and passes the **users id** for the row against which this link is displayed
- Delete
 - Clicking offers a choice of yes/no to confirm deletion
 - If yes is selected deletes the row against which this link is displayed
 - If no is selected the action is cancelled

Manage users edit

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.
- Must be passed a **users id**
 - Display an error if this variable is not provided

Contains a form:

- name (text)
- username (text)
- email (text)
- password (text)
- confirm password (text)
- is admin (select box)
 - Yes
 - No
- save (button)
 - Error checking is performed
 - name is required and must be unique (excluding the user record for this item)
 - username is required and must be unique (excluding the user record for this item)
 - If password is supplied then password and confirm password must match
 - if password is supplied it must be more than 5 characters
 - If error checking fails display the list of errors
 - If error checking passes
 - Save the values provided against the corresponding row in the **users** table
 - Only save the password if it is provided

Manage users add

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a form:

- name (text)
- username (text)
- email (text)
- password (text)
- confirm password (text)
- is admin (select box)
 - Yes
 - No
- save (button)
 - Error checking is performed
 - name is required and must be unique (excluding the user record for this item)
 - username is required and must be unique (excluding the user record for this item)
 - password and confirm password must match
 - password must be more than 5 characters
 - If error checking fails display the list of errors
 - If error checking succeeds
 - Save the values as a new row in the **users** table

Manage blogs list

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a button:

- Add a blog
 - Links to **manage blogs add** page.

Displays a list of all **blogs**. Against each item display:

- Edit
 - Links to **manage blogs edit** page and passes the **blogs id** for the row against which this link is displayed
- Delete
 - Clicking offers a choice of yes/no to confirm deletion

- If yes is selected deletes the row against which this link is displayed
- If no is selected the action is cancelled

Manage blogs edit

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.
- Must be passed a **blogs id**
 - display an error if this variable is not provided

Contains a form:

- name (text)
- date (date select)
- url name (text)
- summary (text)
- content (WYSIWYG HTML editor)
- is published (select box)
 - Yes
 - No
- save
 - Error checking is performed
 - name is required
 - date is required
 - content is required
 - summary is required
 - url name most only contain A-Z and the '-' symbol
 - url name is required and must be unique (excluding the blogs record for this item)
 - If error checking fails display the list of errors
 - If error checking passes
 - Save the values provided against the corresponding row in the **blogs** table

Manage blogs add

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a form:

- name (text)
- date (date select)
- url name (text)
- summary (text)
- content (WYSIWYG HTML editor)
- is published (select box)
 - yes
 - no
- save (button)
 - Error checking is performed
 - name is required
 - date is required
 - content is required
 - summary is required
 - is published is required
 - url name most only contain A-Z and the '-' symbol
 - url name is required and must be unique (excluding the field for this row)
 - If error checking fails display the list of errors
 - If error checking succeeds
 - Save the values as a new row in the **blogs** table

Manage specifications list

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a button:

- Add a specification
 - Links to **manage specifications add** page.

Displays a list of all **specifications**. Against each item display:

- Edit

- Links to **manage specifications edit** page and passes the **specifications id** for the row against which this link is displayed
- Delete
 - Clicking offers a choice of yes/no to confirm deletion
 - If yes is selected deletes the row against which this link is displayed
 - If no is selected the action is cancelled

Manage specifications edit

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.
- Must be passed a **specifications id**
 - display an error if this variable is not provided

Contains a form:

- name (text)
- project id (select box)
 - display all projects
- file (file input)
- save (button)
 - Error checking is performed
 - name is required and must be unique for a given project
 - project id is required
 - file is required
 - If error checking fails
 - display the list of errors
 - If error checking passes
 - Save the values provided against the corresponding entry in the **specifications** table

Manage specifications add

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a form:

- name (text)
- project id (select box)
 - display all projects
- file (file input)
- save (browse)
 - Error checking is performed
 - name is required and must be unique for all other specifications with the same project id
 - project id is required
 - file is required
 - If error checking fails
 - display the list of errors
 - If error checking passes
 - Save the values as a new row in the **specifications** table

Manage projects list

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a button:

- Add a project
 - Links to **manage projects add** page.

Displays a list of all **projects**. Against each item display:

- Edit
 - Links to **manage projects edit** page and passes an identifier for the project against which this link is displayed
- Delete
 - Clicking offers a choice of yes/no to confirm deletion
 - If yes is selected deletes the row against which this link is displayed
 - If no is selected the action is cancelled

Manage projects edit

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.
- Must be passed a **projects id**
 - display an error if this variable is not provided

Contains a form:

- name (text)
- owner users id (select box)
 - display a list of all users
- associated users id (checkboxes)
 - display a checkbox for every row in the **users** table
- save (button)
 - Error checking is performed
 - name is required
 - owner users id is required
 - If error checking fails
 - display the list of errors
 - If error checking passes
 - Save the values provided in the corresponding row in the **users** table

Manage projects add

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Contains a form:

- name (text)
- owner users id (select box)
 - display a list of all users
- associated users id (checkboxes)
 - display a checkbox for every row in the **users** table
- save (button)
 - Error checking is performed
 - name is required
 - If error checking fails

- display the list of errors
- If error checking passes
 - Save the values as a new row in the **projects** table

Manage pages list

Has access conditions:

- User must be logged and have admin privileges
 - If the user is not logged in take them to the **login** page.

Displays a list of all **pages**. Against each item display:

- Edit
 - Links to **manage pages edit** page and passes the **pages id** for the row against which this link is displayed

Manage pages edit

Has access conditions:

- User must be logged in and have admin privileges
 - If the user is not logged in take them to the **login** page.
- Must be passed a **pages id**
 - display an error if this variable is not provided

Contains a form:

- name (text)
- content (WYSIWYG HTML editor)
- meta-title (text)
- meta-description (text)
- save (button)
 - Error checking is performed
 - name is required
 - content is required
 - If error checking fails
 - display the list of errors
 - If error checking passes
 - Save the values provided against the corresponding row in the **pages** table

