

Honey Badgers Inc CMS Project



FantomCMS

(Content Management System)

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The project: Create a web content management system that...

- Uses the Fantom programming language
- Supports single page application design

Things we learned

- The Fantom language
- The scrum process

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Things that worked well for us

- Working in the group room (Tree House)
- GIT branches
- Team building activities

Things that we had trouble with

- Time management
- Lack of Fantom documentation

Technologies we used

- F4 (IDE)
- Fantom
- Java
- Javascript
- MongoDB
- GitHub

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Things We Liked

- Making an amazing project
- Getting the majority of our “ambitious” project complete
- Working together
- Learning new things
- Free Pizza!

Things We Didn't Like

- Sifting through partial Fantom documentation
- Doing RAC reviews
- Incomplete Javascript implementation for Fantom

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Tasks we completed

- A home app that displays the available apps
- Full backend infrastructure for the system
- A state model that allows for easy navigation using the single page application paradigm
- A working database that fits our modular design
- A users app that controls who has access to which apps
- A pages app that displays pages that have been statically stored in the database
- A gallery app for viewing multimedia on the site

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Tasks we completed (continued)

- A layouts app that controls how the entire site is laid out
- A themes app that controls the various colors and patterns on the site
- An image extension to improve image functionality

And now, we present the UI of the CMS!

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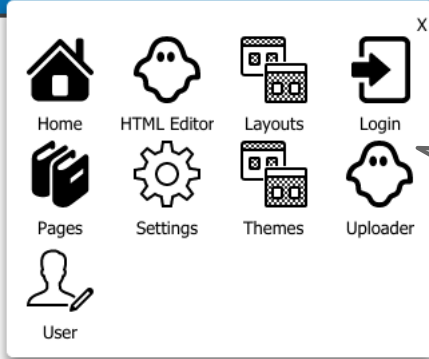
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Home page where all the apps are displayed



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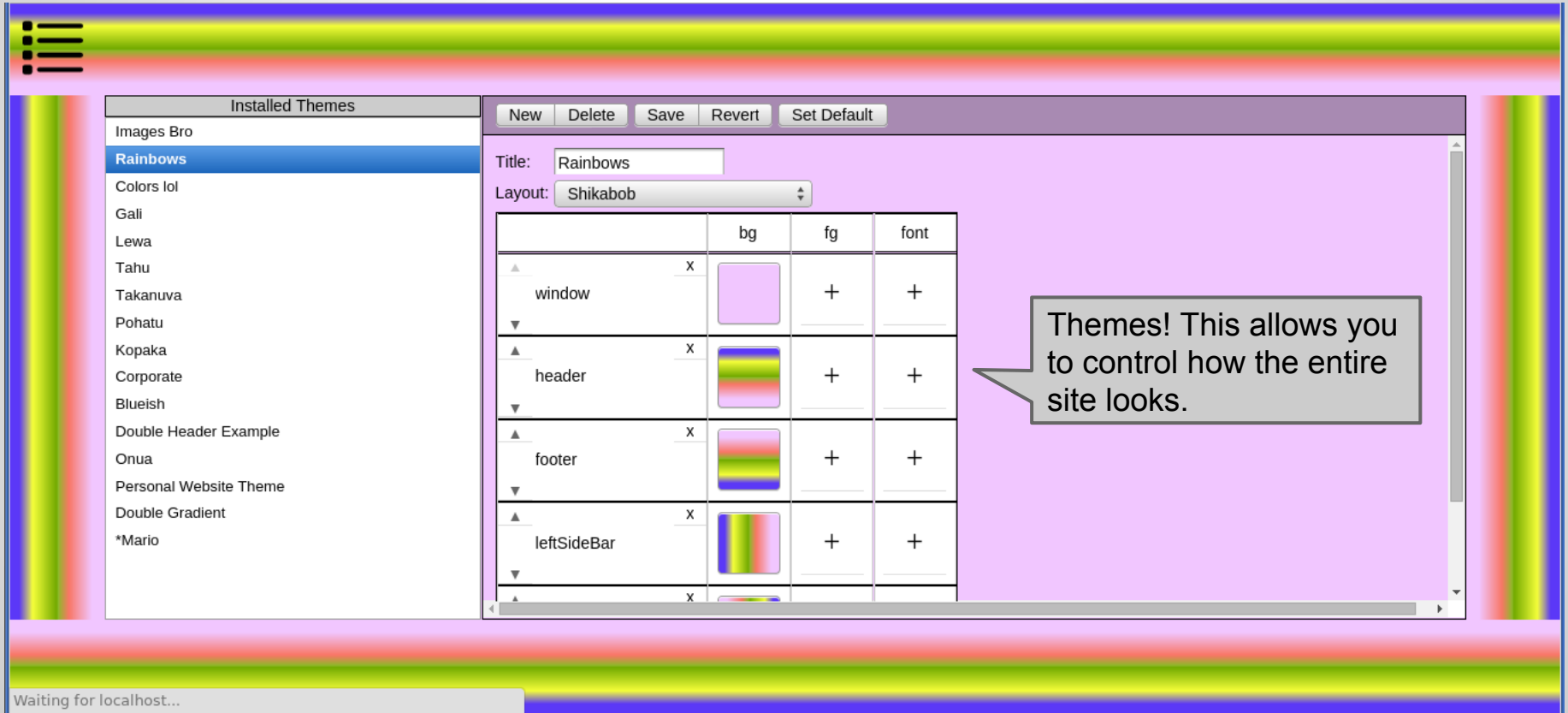
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App drawer which is visible on every page.



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Installed Themes

- Images Bro
- Rainbows**
- Colors lol
- Gali
- Lewa
- Tahu
- Takanuva
- Pohatu
- Kopaka
- Corporate
- Blueish
- Double Header Example
- Onua
- Personal Website Theme
- Double Gradient
- *Mario

New Delete Save Revert Set Default

Title: Rainbows

Layout: Shikabob

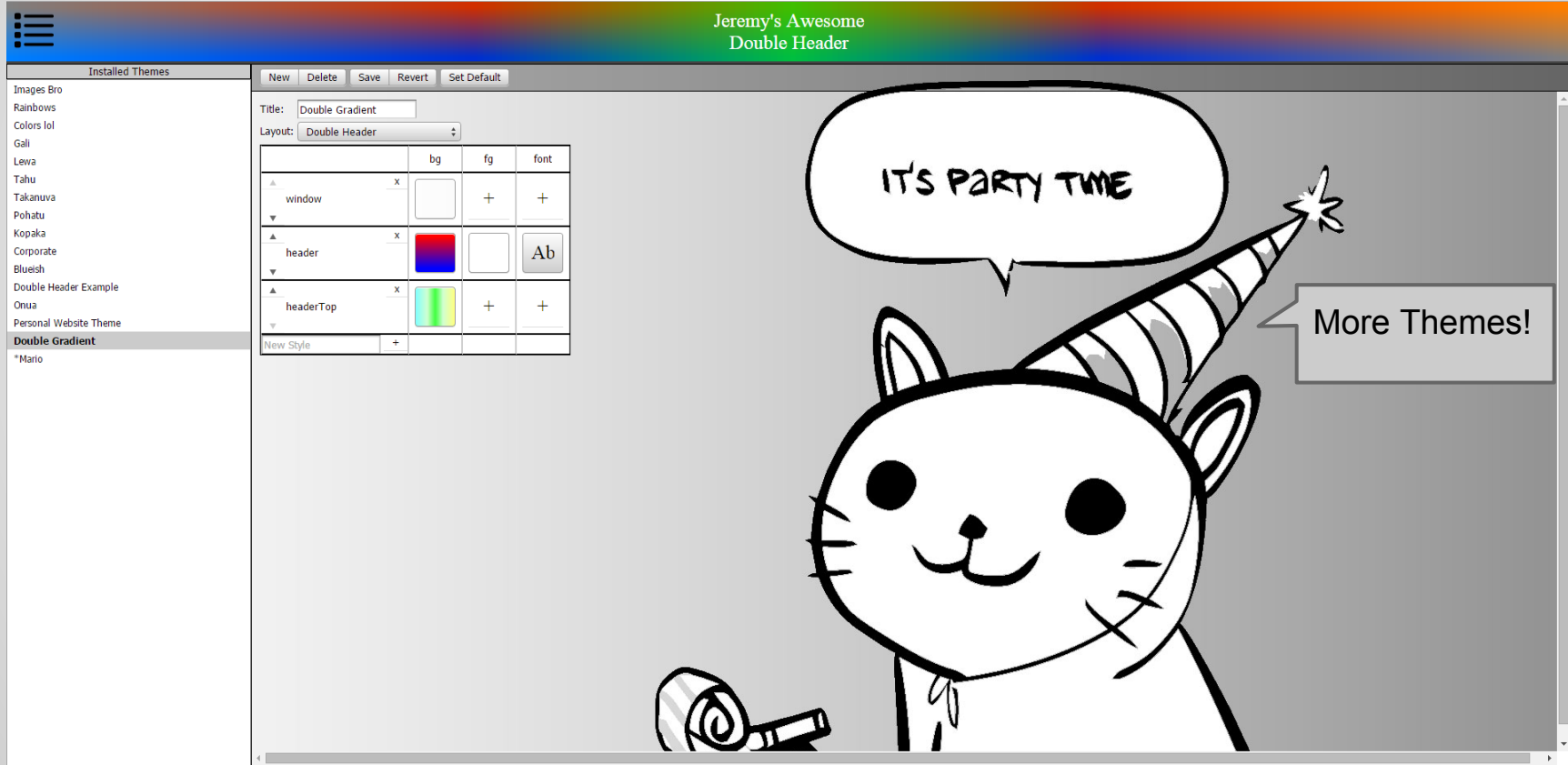
	bg	fg	font
▲ window X		+	+
▼			
▲ header X		+	+
▼			
▲ footer X		+	+
▼			
▲ leftSideBar X		+	+
▼			
▲ X			
▼			





Themes! This allows you to control how the entire site looks.

Waiting for localhost...

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The image shows a screenshot of a web application interface for "Jeremy's Awesome Double Header". The interface has a rainbow-colored header bar. On the left, there is a sidebar with a list of "Installed Themes" including "Images Bro", "Rainbows", "Colors lol", "Gali", "Lewa", "Tahu", "Takanuva", "Pohatu", "Kopaka", "Corporate", "Blueish", "Double Header Example", "Onua", "Personal Website Theme", and "Double Gradient" (which is highlighted). Below the list is a small note "*Mario". The main area of the interface shows a preview of the selected theme, "Double Gradient". The preview displays a white cat wearing a party hat and holding a party blower. A speech bubble above the cat says "IT'S PARTY TIME". Another speech bubble to the right says "More Themes!". The preview area also includes a control panel with buttons for "New", "Delete", "Save", "Revert", and "Set Default". Below these buttons, there are fields for "Title" (set to "Double Gradient") and "Layout" (set to "Double Header"). A table below these fields allows for customizing the theme's appearance. The table has columns for "bg" (background color), "fg" (foreground color), and "font" (font style). The table contains three rows: "window" with a white background and plus signs for foreground and font; "header" with a red-to-blue gradient background and a font sample "Ab"; and "headerTop" with a green-to-yellow gradient background and plus signs for foreground and font. A "New Style" button is at the bottom of the table.

	bg	fg	font
▲ window x		+	+
▼ header x			Ab
▲ headerTop x		+	+
New Style +			

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HomeAboutResumeContact

Installed Layouts

NewDeleteSaveRevertSet Default

Title:GotoButtons Tab Example

Top:

```
fui::ThemedBorderPane {
  bgStyle="header"
  border=gfx::Border("0,0,3 outset #444444")
  insets=gfx::Insets("10,10,0,10")
  webfvt::FlowPane {
    fui::GotoButton { border= gfx::Border("0"); bg=null; bgPressed=null; innerShadow=null; innerShadowPressed=null; insets=gfx::Insets("0"); uri="fui://app/home/"; fvt::Tab { text="Home" } },
    fui::GotoButton { border= gfx::Border("0"); bg=null; bgPressed=null; innerShadow=null; innerShadowPressed=null; insets=gfx::Insets("0"); uri="fui://app/home/"; fvt::Tab { text="About" } },
    fui::GotoButton { border= gfx::Border("0"); bg=null; bgPressed=null; innerShadow=null; innerShadowPressed=null; insets=gfx::Insets("0"); uri="fui://app/home/"; fvt::Tab { text="Resume" } },
    fui::GotoButton { border= gfx::Border("0"); bg=null; bgPressed=null; innerShadow=null; innerShadowPressed=null; insets=gfx::Insets("0"); uri="fui://app/home/"; fvt::Tab { text="Contact" } },
  },
}
null
```

Bottom:

Left:

Right:

Expanded Header and Footer

*Original

Shikabob

Empty Layout

Jeremy's Test Layout

Double Header

Original 2

GotoButtons Tab Example

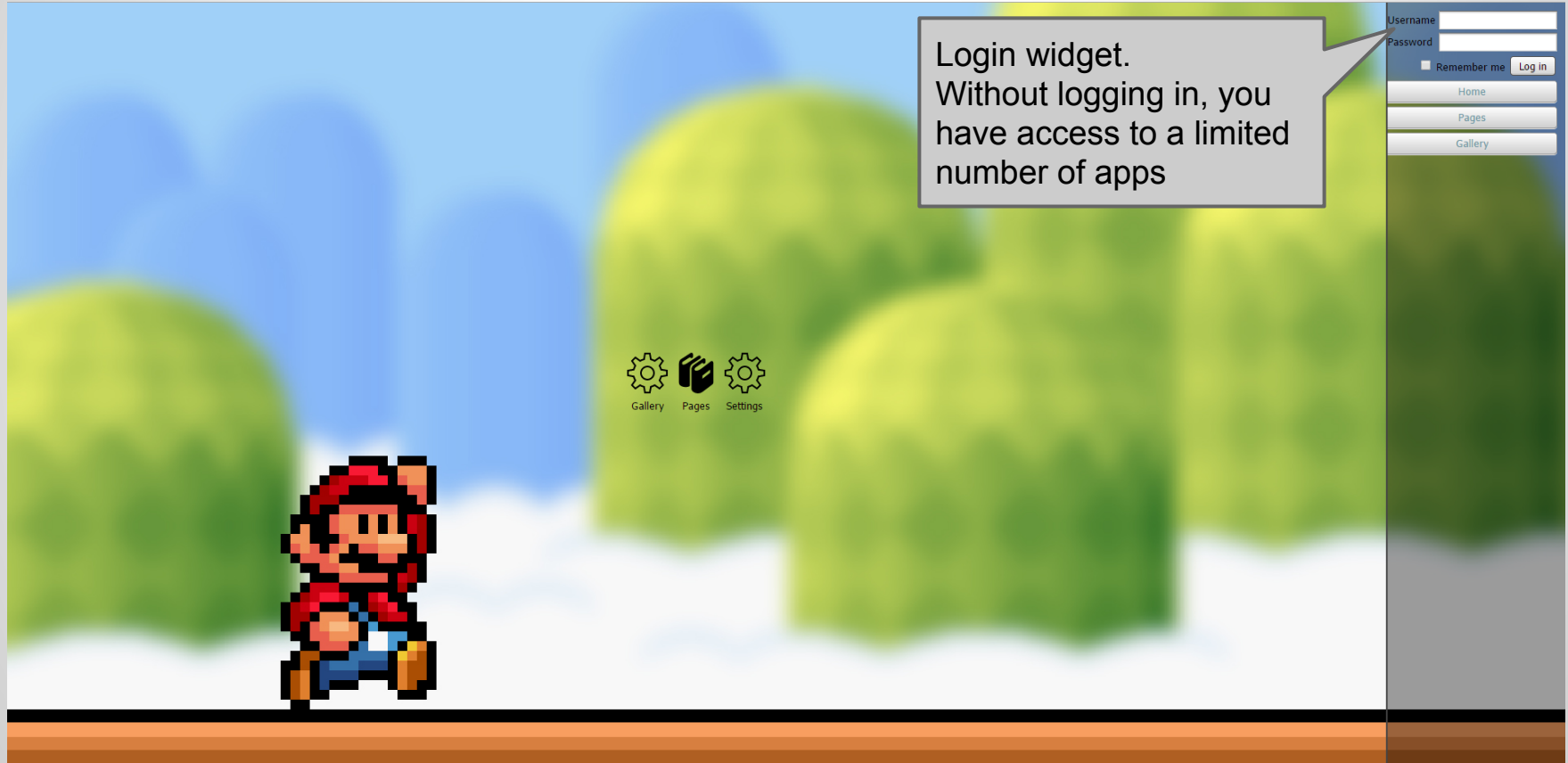
Title Header Example

Personal Website Layout

Sidebar Links

Layouts

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Manage Users

Manage User Groups

admin

guest

Welcome, admin! (logout)

Home

Pages

Gallery

Set up users and user groups in User app. You also can set user permissions.

Group Name: guest

audio ☒

image ☒

gallery ☐

uploader ☐

pages ☒

themes ☐

layouts ☐

user ☒

Close Save

Add Group

Remove Group

Edit Group

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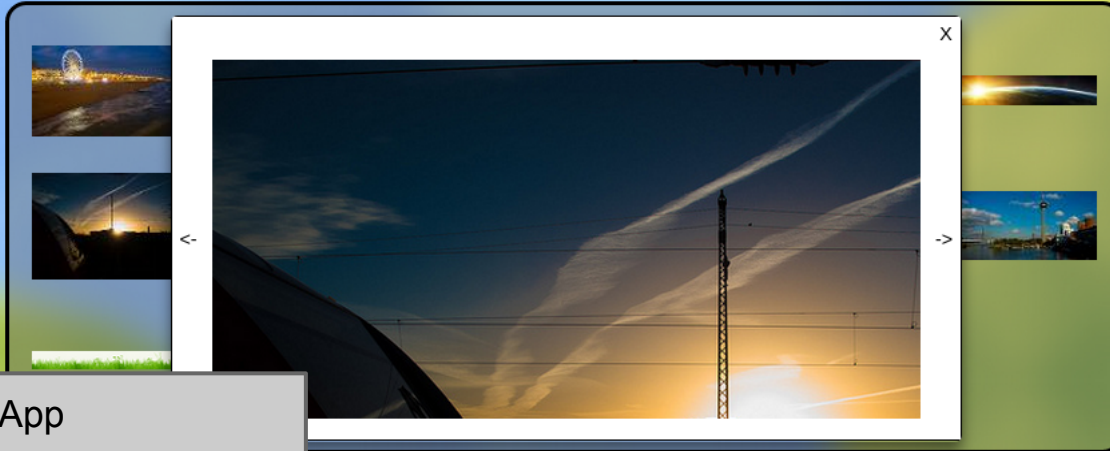


Welcome, admin! (logout)

Home

Pages

Gallery



Gallery App

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Welcome to Pages!

We got a lot in store for you so stay tuned!

Groooooovy colors maaaaaan

Jono's Page

Jono's Other Page

Cole's Page

Isaac's Page

Josh's Page

Audio Test Page

Pages. Here sample pages are loaded from the database

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Database

Server

Host	<input type="text" value="162.243.155.57"/>
Port Number	<input type="text" value="27017"/>
User Name	<input type="text"/>
Password	<input type="password" value="....."/>
Database	<input type="text" value="fantomcms"/>
	<input type="button" value="Cancel"/> <input type="button" value="Apply"/>

Database settings

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Database

Server

Port Number

Web Server Title

Server settings

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Questions?