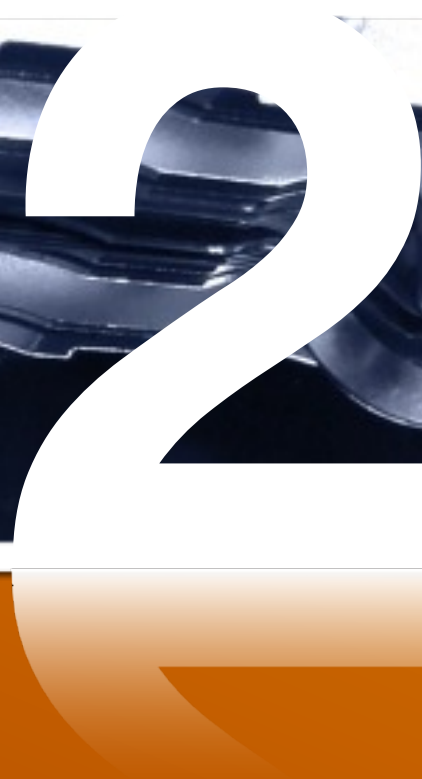# programming for web applications

# about course

‣ Month-long Application Project

  ‣ *Today's slides contains all the Project Requirements*

‣ Phase driven milestones

  ‣ *Discovery, Design, Prototyping, Development*

‣ Lectures

  ‣ *Exploration, practice, coding exercises*

# task manager

‣ web application using client-side and server-side technologies

‣ full user system *(registration, login, logout. stateful sessions)*

‣ rich interface requirements

‣ highly ajax driven content

# technologies

‣ jQuery core

‣ jQuery UI extensions

‣ php / mysql  *(server environment MAMP)*

# PWA-2 Grading Rubric

| Item | % |
| --- | --- |
| Creative Brief / Branding / Logo | 10% |
| Project Pitch | 5% |
| Site Prototype *(html/css)* | 5% |
| Development Milestone *(javascript)* | 5% |
| Inclusion of 5 media center items | 0% |
| Aesthetics & Usability *(finished site)* | 20% |
| Functionality *(finished site)* | 45% |
| Professionalism | 10% |
| See the document entitled "All Rubrics" in the Announcement section in FSO | |

*milestones*

*final turn-in*

# PWA-2 DUE Dates

| Item | Due Dates |
| --- | --- |
| Branding / Logo | Week 1 |
| Creative Brief - Finished Document | Week 1 |
| Site Prototype *(html/css)* | Week 2 |
| Development Milestone *(javascript)* | Week 3 |
| Inclusion of 5 media center items | Week 3 |
| Aesthetics & Usability *(finished site)* | Week 4 |
| Functionality *(finished site)* | Week 4 |
| Professionalism | The duration of the course |
| Class Participation | The duration of the course |

project.**Inspiration**

by.**Students**

# **the project**
# feature requirements

The following feature sets are **not** optional
These requirements account for 70% of the Project grade

# Design Requirements:

1. **Size:** *design must fit in a 960px schema*

2. **Branding:** *must be unique (not a redesign of an existing product)*

3. **Compatibility:** *must function in firefox, safari, chrome*

4. **Content:** *NO lorem ipsum*

5. **Features as Design:** *should be as rich as you can design... you are not required to program every design element that you create (only the requirements are required)*

# Landing Page:

1. **Login:** *form with username/password and button.*

   ▸ *Inputs must be revealing (goes blank on focus, put default back on blur)*

   ▸ *Must give user an error message on a bad login attempt (do NOT use a popup)*

2. **Welcome content:** *introduce the user to the application, entice them to want to join your service.*

   ▸ *Content about what your application provides*

   ▸ *Feature list*

   ▸ *Plans / Pricing  (optional idea, if "FREE", use that as an advantage point)*

3. **Registration:** *quick-registration CTA, make it easy for users to join*

   ▸ *Could be a popup, or separate page, or built into the Landing Page*

   ▸ *Error messages on bad register (i.e. username or email is already taken)*

   ▸ *On successful registration, automatically load the application view*

| Minimum Fields | username | password | email |
|---|---|---|---|

# Project Page:

1. **Project List:** *interactive list of Projects for the logged in user*

   ▸ *Minimum Project Details:*

      ▸ *Project name,*

      ▸ *Description,*

      ▸ *Due Date*

   ▸ *Status:  (per status)  urgent, normal, delayed, finished*

   ▸ *Priority:  (optional field)  can be used for any custom need in your project*

2. **New Project:** *add a Project*

   ▸ *Same data as above*

3. **Edit Project:** *edit a Project (form or edit-in-place)*

   ▸ *Same data as above*

4. **Log Out Link**

# Tasks Page:

1. **Task List:** *interactive list of tasks for the logged in user*

   ‣ *Minimum Task Details:*

      ‣ *Task name,*

      ‣ *Description,*

      ‣ *Due Date,*

      ‣ *Project name*

   ‣ *Status: (per status) urgent, normal, delayed, finished*

   ‣ *Priority: (optional field) can be used for any custom need in your project*

2. **New Task:** *add a task to a project*

   ‣ *Same data as above*

3. **Edit Task:** *edit a task (form or edit-in-place)*

   ‣ *Same data as above*

4. **Log Out Link**

# the project
## your choice of features

The following feature sets **ARE** optional
You **must** choose at least 3 extra features
*(this list is just ideas, you can be creative and make your own!)*

These features account for 30% of the Project grade

# Optional Feature Ideas:

‣ Clients (do all 3)

  ‣ List, Add New, Edit

‣ View & Edit Your Account Info

‣ Color Coding

‣ Timeline View *(or Calendar View)*

‣ Drag & Drop *(meaningful implementation)*

‣ Dashboard page *(first page when logged in, summaries, calendar, etc)*

‣ Internal Analytics *(advanced dashboard idea)*

project.**Milestones**

‣ Branding Concept

  ‣ **Due:  Week 1**

    ‣ Must have project branding and logo concepts finished.

    ‣ Turn your deliverable into GitHub.  Name your file:
      **"lastname_firstname_branding.pdf"**

    ‣ Worth 10% of your creative brief's grade

‣ Final Creative Brief

  ‣ **Due:  Week 1**

    ‣ Must have **ALL** of your CB Design Deliverables completed

    ‣ Worth 10% of your grade

    ‣ Turn your deliverable into GitHub.  Name your file:
       **"lastname_firstname_CB.pdf"**

# HTML/CSS Prototype

- **Due: Week 2**

    - ALL HTML/CSS markup completed, *no javascript* in turn-in.

    - Filler content *(**not** lorem ipsum)* used inside design to test html/css

    - *Create ALL the HTML/CSS in advance, utilize the Functional Specs to see what type of markup you may need to create for each component of the website.*

    - Worth 5% of your grade

    - Turn in your deliverable to GitHub.  ALL HTML and CSS files for your ENTIRE site must be included.  Name your file: "**lastname_firstname_prototype.zip**"

‣ **Development Milestone**

  ‣ **Due:  Week 3**

    ‣ At minimum:

      ‣ registration page

      ‣ login/logout menu

      ‣ login action removes the *landing* UI and creates the *application* UI

      ‣ logout action removes the *application* UI, and creates the *landing* UI

    ‣ Worth 5%

    ‣ Turn in your deliverable to the GitHub.  ALL files for your ENTIRE site must be included.  Name your file: **"lastname_firstname_development.zip"**

‣ Final Delivery

  ‣ **Due : Week 4**

    ‣ Utilize MAMP for build testing.

      ‣ *make sure you are testing via http://localhost:8888*

    ‣ Package your site into a zip compressed file *(make sure you double check all your files, images, css, and js are in it!).*

    ‣ You will need to include your database, if you updated your database tables.

    ‣ Turn in your deliverable using GIT.  ALL code must be included in a **directory** named: **"FINAL"**

**creative brief**
deliverable milestone

# Creative Brief requirements:

‣ *Use your branding/identity as a cover letter to the document*

‣ **Table of Contents**

‣ **Description Page** *(project description, audience)*

‣ **Branding Concept** *(plus alternates and usage guidelines)*

‣ **Flow chart**

‣ **6 Wireframes** *(details on next slide)*

‣ **6 Design Comps** *(details on next slide)*

‣ **Style Guide** *(details on next slide)*

‣ **Project Timeline** *(milestones and personal goals. Need at least 12 milestones for the project)*

‣ **Optional Items** *(list of the 3 optional items you will be implementing into your project)*

‣ Worth 10% of your grade

# Design Deliverables in CB *(these are parts of your single CB pdf)*

‣ **6 Wireframes:** *Wireframes should be high fidelity (show ALL content & space pixel sizes, descriptions where functionality & error messages will go)*

  - Welcome Landing Page
  - Application - Project & Task Listing Page - **1 view each w/ expanded view**
  - New Project & Task Page
  - Registration Page

‣ **6 Design Comps:**

  - Same 6 pages as wireframes
  - Finished designs, ready to slice, ***no lorem ipsum (use real content)***
  - Show where the error messages will display

‣ **Style Guide:**

  Color guide for site
  CTA example with normal and hover state
  Link & Button colors and styles
  Content font sizes and colors

# Creative Brief *(Example Outline)*

‣ 1. Cover page - Show Branding

‣ 2. Table Of Contents

‣ 3. Brief Descriptor - Describe The Goal of the Application, Target Audience, etc...

‣ 4. Logo Design

‣ 5. Color Scheme

‣ 6. Type Treatment (font, size, color, etc..)

‣ 7. Copy Text / Copy Links / Buttons / Hover / Tool tips / etc...

‣ 8. Flow Chart

‣ 9. Six Wireframes (show content, pixel sizes for everything (i.e gutters), description where functionality will go) (see slide 29)

‣ 10. Six Design Comps (see slide 29)

‣ 11. List of the 3 Optional Items to be Included in your Project

‣ 12. At least 12 Milestones of your Project Items

# Helpful Project Resources:

| Website | Description |
|---|---|
| fontsquirrel.com | Convert fonts into web-font usable formats |
| css3please.com | Helps create cross-browser css3 styles (even IE) |
| css3pie.com | Enables border-radius and shadows in IE |
| subtlepatterns.com | Slick repeatable backgrounds |
| stripegenerator.com | Creates repeatable striped backgrounds |
| ajaxload.info | Loading graphic generator (gif format) |
| freeiconsweb.com | Because icons make the web pretty |
| speckyboy.com/2012/02/13/ | MOAR ICONS |
| css3button.net | Um, awesome? |
| colorzilla.com/gradient-editor/ | CSS3 Gradient Generator |

using.**MAMP**

# Downloading & Using Mamp:

‣ *Go to http://mamp.info to download the FREE version of MAMP*

‣ *Once downloaded please install*