# Milestones

# Phase 0: Ongoing (5%)

## Weekly timesheet

### Use provided template

### Weekly push to GitHub; available to instructors via URL in Moodle notes

# Phase 1: Brainstorming (2.5%)

## Due during the 2nd week. Subject to change. Always check Moodle.

## Peer review

## A clear presentation

## Five minute presentation and five minutes for feedback

## Must be in class to present and receive/offer feedback

## Deliverables:

### On time attendance

### Presentation with a visual aid showing the user experience

### Audience participation

# Phase 2: Planning (10%)

## Due during the 4th week. Subject to change. Always check Moodle.

## Domain name and live hosting

### One link that links to a page on your domain.

### One link that links to the whois information.

### Submitted as a Moodle note with Project Description file upload

## Database

### Minimum of 4 tables (though you will likely have MANY more)

### Database optimization

#### Normalized tables to 3NF; including, but not limited to:

##### Appropriate use of lookup tables

##### Appropriate 1-1, 1-n, n-n relationships

##### Minimal repeated data

#### Appropriate data types

### Database diagram

#### A document similar to Access’ Relationships window.

##### Export as a JPEG with the file name **dbw-phase2.jpg**

#### Must indicate optimization items listed above

## Deliverables:

### dbw-phase2.jpg

### two links

# Phase 3: Functioning Production Environment (5%)

## Due during the 6th week. Subject to change. Always check Moodle.

## Updated database wireframe that clearly shows suggested improvements are incorporated

## Generated Database

### SQL dump (upload via Moodle, database-phase3.sql)

## Database connection PHP include file (upload via Moodle, database-connection.php)

## Proof that PHP and the database are working

## GitHub account set up and URL posted as Moodle note

### A PHP page on the server that displays content from the database. The database can contain data that is hard coded. (Post link in Moodle note with dump and connection file uploads)

## Deliverables:

### dbw-phase3.jpg

### database-phase3.sql

### database-connection.php

### one link

# Phase 4: Demonstration Checkpoint (10%)

## Due during the 9th week. Subject to change. Always check Moodle.

### Start usability testing during 8th week

## Single multi-user login

### Single login that determines the user level and redirects appropriately.

#### Form validation

##### Must have both client (HTML5 and/or JavaScript) and server side validation

##### Username and password required

## Some dynamic data displayed

### Personalized logout link

### User-specific data (three possible views)

## Page framework complete

### All pages are built though not necessarily with their content

### 100% functional navigation

### Layout scaffolding is complete (site is complete sans content)

#### CSS

#### Responsive

#### Colors

#### Non-essential graphics

## Students demonstrate live to instructor

## Usability test

### Application is tested by users as per the rubric

### Application tested by both WEB-289 instructors. You will need to be pro-active and schedule time with your instructors.

### Student has tested at least two other student’s application

### Collect the reviews/forms (provided by instructor) for your site and submit them by the end of class

## Online portfolio

## Deliverables:

### Demonstration of login

### Demonstration of dynamic data

### Demonstration of user-level specific dynamic data

### Demonstration of completely navigable page structure/hierarchy

### Completed usability form(s) that you collected (must include the names of your reviewers) (One PDF per testee)

### Screenshot of Google Lighthouse mobile test results (PDF)

### Analysis of usability/mobile test results and proposed changes (usability-initial-summary.pdf)

### Moodle submission comment with URL to portfolio

# Phase 5: Final Usability Testing (2.5%)

## Due during the 12th week. Subject to change. Always check Moodle.

## Second round of usability testing

### Application is tested by users as per the rubric

### Tested by both WEB-289 instructors. You will need to be pro-active and schedule time with your instructors. We expect to see changes implemented based on our Phase 4 review.

### Student has tested at least two other student’s application

### Submit usability forms you collected for your site by the end of class

## Deliverables:

### Completed usability form(s) that you collected (must include the names of your reviewers) (One PDF per testee)

### Screenshot of Google Lighthouse mobile test results (PDF)

### Analysis of usability/mobile test results and proposed changes (usability-final-summary.pdf)

# Phase 6: Final Submission (50%)

## Both a live demo and localhost demo must be available

### You will present using the live server. The localhost version is to be used only in case the A-B Tech network or your server is down.

### If presenting in person, you will have 5 minutes before your presentation to get yourself ready – make sure your site is available online. Or – if necessary – to install/configure the localhost demo or connect your own laptop to the overhead (via HDMI) to show a local version.

### You will have 15 minutes to present. Do not talk about technology! Just demonstrate the general public, member, and admin views/functionality.

### There will be a 10-minute Q and A period after you present where reviewers will likely ask technical questions.

### Your entire presentation will last 30 minutes including set up, presentation, and questions.

## Expo Presentation on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Deliverables due on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Final Presentation on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Assets

### Media sources documentation (media-sources.docx or .pdf)

#### Word or PDF document

##### Thumbnail images with URLs pointing to hosting page (not image)

##### All media must be legal to use and free from copyright violations

### Database Wireframe

#### Must show:

##### Relationships

##### Primary and foreign keys

##### Data types

#### Must represent the actual database used; must match SQL script

### Must be available two ways:

#### GitHub

#### Moodle

## Database design

### Database optimization

#### Normalized tables (to 3NF) with appropriate relationships

#### Appropriate data types

### Database wireframe (dbw.jpg)

#### Hand drawn or a document similar to Access’ Relationships window.

##### If hand-drawn, scan as dbw.jpg

#### Must indicate relationships and data types

### SQL script file (to generate tables and default content, database-final.sql)

#### Must include at least one admin account and one registered user account

#### Must include all initial content

#### Store the file as .sql with comment at the top that indicates the included logon credentials.

## Forms

### Both client side and server-side validation

### Usability

#### Error messages and confirmations

#### ‘Required’ indicators

#### Sticky fields

## Search feature

### Some content is searchable, for example:

#### Users

#### Content

#### Prices

#### Dates

#### Etc…

### Accurate result set

### Usable results and/or messages

## Security

### Prevent SQL injection

### Prevent XSS

### Encrypted passwords

### CAPTCHA (choose one that is usable! Not impossible/frustrating for users.)

### Protected member/admin pages

### Prevent HTML injection

## Code functionality and best practices

### HTML is semantic and validates (for HTML in your control)

### CSS is semantic and validates (for CSS in your control)

### Runs without errors

### Appropriate modularity

### PHP docBlock

### PHP function abstraction

### JavaScript function abstraction

## Usability/Accessibility

### Fully responsive (including no horizontal scroll)

### WCAG color contrast conformance to level AA

### Consistent and intuitive navigation

### Intuitively usable

### Current page marker (page heading, navigation)

### Single login/personalized logout on every page

#### (Not login for members and a separate one for admins)

### Works in versions of browsers installed at A-B Tech

### Custom 404 pages

## Files to Submit via Moodle

### Last-First-WEB-289-2023SP (zipped)

#### Entire production web site – all files and folders

##### Don’t forget the assets folder!

###### Original unedited artwork (folder)

###### dbw.jpg

###### database-final.sql

###### media-sources.docx

## Presentation/demonstration

### If presenting in person - 5 minutes to set up localhost, if needed

### 15-minute presentation, using localhost (reviewers use live demo)

### 10 minutes for questions and answers

### Show all three views

#### Walk through each of these views to demonstrate the user experience

### Introspection

#### What part did you find the most challenging?

#### What would you do differently/add in version 2.0?

#### What aspect did you enjoy the most?