Agile Development Projects

In Computer Science, we talk about Agile Development and how Distance Education limits what we can do, and/or practice, with Agile Development. This file is filled with 10 different developmental projects that are meant to help you get into the practice of using Agile Development for your everyday projects. This is so that transitioning to company Agile Development won’t be as difficult as just knowing the philosophy behind Agile Development. I encourage you to seek out other students and try to build the best applications that you can. Working with other students will help you gain the skill of pair programming, which a vital skill in the industry. These projects can be completed by singular individuals however, so even if you can’t find a partner, you can do these projects on your own. We’ll be coming back to these Projects as we continue through the course.

Sincerely,

projects = { “That Guy whose teaching you” => Tommy Mertell }

SPA (Single Page Application)

Design and Develop a Single Page Application for an Imaginary Client

Type: Precise Description

1. ***HTML***

Scrum Stories

* I would like a website where I can see everything on one page.
* I would like a website where the user goes from an introduction, to examples, to a way to contact me.

Chores

* The client needs a website that’s contained within a single HTML page.
* The website needs to have three sections; Intro, Examples, Contact
* Examples will need to be able to have multiple sections.

1. CSS3

Scrum Stories

* I would like the website to have a very relaxing theme, going from *like* a dawn color to a dusk color.
* I would also like to make sure the user is not flooded with examples and that everything looks contained with some extra room on the side.

Chores

* The client wants an orange to black theme that has a light grey overtone.
* The Website needs to be simplified. Little text, big pictures, rather large margin.

1. JavaScript ECMA 5

Scrum Stories

* I would love it if you could have a place where I could upload files to the internet in case I want to change my examples.

Chores

* The website needs an administration control that allows for file uploads and direct influence to the examples section (AJAX in jQuery).

1. SQL

Scrum Stories

* In the contact section, I’d like to keep the email and name so I can build a emailing list.

Chores

* The client needs a list of email and passwords collected through a form.

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.

1. Rails

Scrum Stories

Chores

1. Deploy
2. Employ Security Methods.

Freelance Service Website

Design a website for a freelancer whose trying to sell their services.

Type: Ambiguous Description

1. HTML

Scrum Stories

* I would like a website where I can showcase my portfolio (all of my projects), my contacts and social connections, and an introduction.
* I would like to have a form clients can fill out to request my services.
* I am a fantasy writer, pleased center the website around this design.

Chores

* Intro, About, Contact pages [standard]
* Quote Page [Name, Service, Description, and Deadline]

1. CSS3

Scrum Stories

* I would like a steel theme.

Chores

* The website needs to have the colors of white, black, and silver.
* Since it is a “steel” based theme, it might be best to make items look “sharp”.

1. JavaScript ECMA 5

Scrum Stories

* I would like to have a tab where clients can look through stories.

Chores

* Create a tab that loads HTML into specific sections.

1. SQL

Scrum Stories

* No Scrum Stories.

Chores

* SQL database needed to store order form.

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

Coding Website

Replicate a service like StackOverflow.

Type: Limited Description

1. HTML

Scrum Stories

* I would like a website that handles comments.

Chores

* Pages: Home, Profile, Question Form Template, Answer Form Template

1. CSS3

Scrum Stories

* I would like it to look cool.
* I want it to be useful.

Chores

* Construct the website with the default colors of white, black, yellow, and red.
* Background will be white, regular text will be black, warning text will be red, and yellow text will be for completed text.
* Yellow and Red text will be reserved for JavaScript Events

1. JavaScript ECMA 5

Scrum Stories

* I want the user to be able to make a decision on what the best answer is.

Chores

* Modal is needed for Correct Decision.
* Modal is needed for Incorrect Decision.
* Modal is needed for Error.

1. SQL

Scrum Stories

Chores

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

Business Website

Design a simple website that showcases a company.

Type: Artistic Description/User Experience

1. HTML

Scrum Stories

* I need a website that will show off the style and feel of our business.
* I would love to have a website that would react to the user actions and remember what they want.

Chores

* Standard Home, About, Contact build.
* Client is asking for a professional website, therefore will be an interactive SPA – Build Single Page for Expansion.

1. CSS3

Scrum Stories

* My business is based on technology and developing gaming gear.

Chores

* Primary colors – Red, Green, Black
* Secondary Colors – Blue, Purple
* Either build a gears type or fluidity type of website. Fluidity would provide a more professional approach, go with fluid.
* Option – Design a website with a HUD.

1. JavaScript ECMA 5

Scrum Stories

* No Scrum Story

Chores

* Adapt website to interact with user.

1. SQL

Scrum Stories

Chores

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

Social Media Website

Design a social media website like Facebook or Twitter.

Type: Copycat Description

1. HTML

Scrum Stories

* I would like a website that looks like Facebook or Twitter.
* I believe users should interact through Bubbles instead of profiles.

Chores

* Develop a Profile Partial.
* Develop a Feed Partial.
* Home Page will have a feed, a “Bubble”, a list of “Bubbles” will go across the top. (Later, interactive bounce on hover)
* Search feature needed.

1. CSS3

Scrum Stories

* No Scrum Stories

Chores

* Create Interactive Hover
* Primary Colors – Blue and White
* Secondary Colors – Gray
* Graphical – Gloss on Bubbles and Feed

1. JavaScript ECMA 5

Scrum Stories

* No Scrum Stories.

Chores

* Develop Friends list partial.

1. SQL

Scrum Stories

* Create a database for signing up.
* Create a Friends database.

Chores

* Create a database for signing up and allow for a user to INSERT friends into a friends list.

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.
* Create API for friends list.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

Graphic Designer Profile

Design a website for a graphic freelancer whose trying to sell their services.

Type: Artistic Description/User Experience

1. HTML

Scrum Stories

* I want an interactive website that show cases my skills as a graphical design, with a very small portion dedicated to contact me. Maybe at the bottom.

Chores

* SPA Design
* Clean Cut Design
* Portfolio and About Me mixed with a Contact.

1. CSS3

Scrum Stories

* No Scrum Story Needed.

Chores

* Clean Cut Design.
* Primary colors – Black, White
* Secondary color - Red

1. JavaScript ECMA 5

Scrum Stories

* I would like my email to be large when a client hovers over it.
* I forgot about this, but when they click on my email, I would like the browser to handle the email.

Chores

* Animate Email.
* Build a form partial.

1. SQL

Scrum Stories

* Allow for the Insertion of Orders.

Chores

* Create a Database that will take the orders.

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

File Hosting Service

Design a website for hosting files.

Type: Precise Description

1. HTML

Scrum Stories

* I need an administration page that allows users of the website to upload files to the company website.

Chores

* Follow the design of the current website and build an appropriate Administrative Panel.

1. CSS3

Scrum Stories

* I would like the administrative panel to be a square in the middle of the page.

Chores

* Make the administrative panel a hovering box.

1. JavaScript ECMA 5

Scrum Stories

* I would also like a section that is an interactive Calendar.

Chores

* Develop a Calendar Partial that is included inside of the Administrative panel.

1. SQL

Scrum Stories

* I would also like a mailing system in another section.

Chores

* Build a Database that accepts Calendar items.
* Build a Database that contains separate emails based on individuals.

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.
* Build an API that allows for the creation of new dates and items.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

Blog Website

Design a website for a blog writer.

Type: Ambiguous Description

1. HTML

Scrum Stories

* I need a Blog.

Chores

* Create a default Home.
* Create a Blog Partial.

1. CSS3

Scrum Stories

* I like Black and red

Chores

* The background will be black.
* interactive areas will be red.
* Red will need gloss.

1. JavaScript ECMA 5

Scrum Stories

* I like the part where I can make a Blog, but I need to know if it was posted successfully.

Chores

* Create and load an Article Partial.
* Alert the user whether an action succeeded or failed.

1. SQL

Scrum Stories

* Replicate JavaScript to understand why we use JavaScript to contain large texts.
* Develop a Database that accepts a Title and an Article.

Chores

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.
* Develop an API for the Blog Articles to be contained in.
* Alert the user whether an action succeeded or failed.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

Teaching Website

Design a website for students who want to learn about topics.

Type: Copycat Description

1. HTML

Scrum Stories

* I would like to develop a website where people can sign up to teach in a video format.
* I would like to have a vetting process to determine if the teacher is adequate to teach.

Chores

* SPA-Style Home Page
* Sign up form.
* Account Page – My Learning Videos, My Teaching Videos
* Search Page – Categories, Videos in Categories.

1. CSS3

Scrum Stories

* I am going for like a Tron-look to appeal to the older techies.

Chores

* Primary Colors – Blue and Black
* Graphical – Gloss

1. JavaScript ECMA 5

Scrum Stories



Chores

1. SQL

Scrum Stories

* No Scrum Story is needed.

Chores

* Create a Database for Users

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.
* Create an API to list courses and images in the Search Page.
* Create an Account Specific API for My Learning Videos and My Teaching Videos.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.

News Website

Design a website for a news company that will showcase important articles.

Type: Artistic Description/User Experience

1. HTML

Scrum Stories

* I need a website that will display news articles.
* I would like our readers see a featured article for each category that they go in.

Chores

* Create an Administration Panel.
* Create an Article Form partial.
* Create a Category Form Partial.
* Create a Home Page.

1. CSS3

Scrum Stories

* I would like the website to be classy.

Chores

* Primary Colors – Black and White
* Secondary Colors – Gray

1. JavaScript ECMA 5

Scrum Stories

* No Scrum needed.

Chores

* Create a Featured Article Section.
* Create an Editorial section.

1. SQL

Scrum Stories

* Create a User’s Database.

Chores

1. BootStrap

Scrum Stories

* I would like to change the website to be mobile responsive.

Chores

* Replace the current design with a Bootstrap Design.

1. jQuery

Scrum Stories

* No Scrum stories.

Chores

* Replace JavaScript with jQuery.
* Create an API for articles.

1. Rails

Scrum Stories

* No Scrum needed.

Chores

* Convert EVERYTHING into a Rails Application.

1. Deploy
2. Employ Security Methods.