Milestone 2

Team: *TARMAC*
Members: *Colin Craighead, Tyler Benson, Maureen Aubrey, Alex Kennedy, Ahman Woods, Rebecca Donohoe*
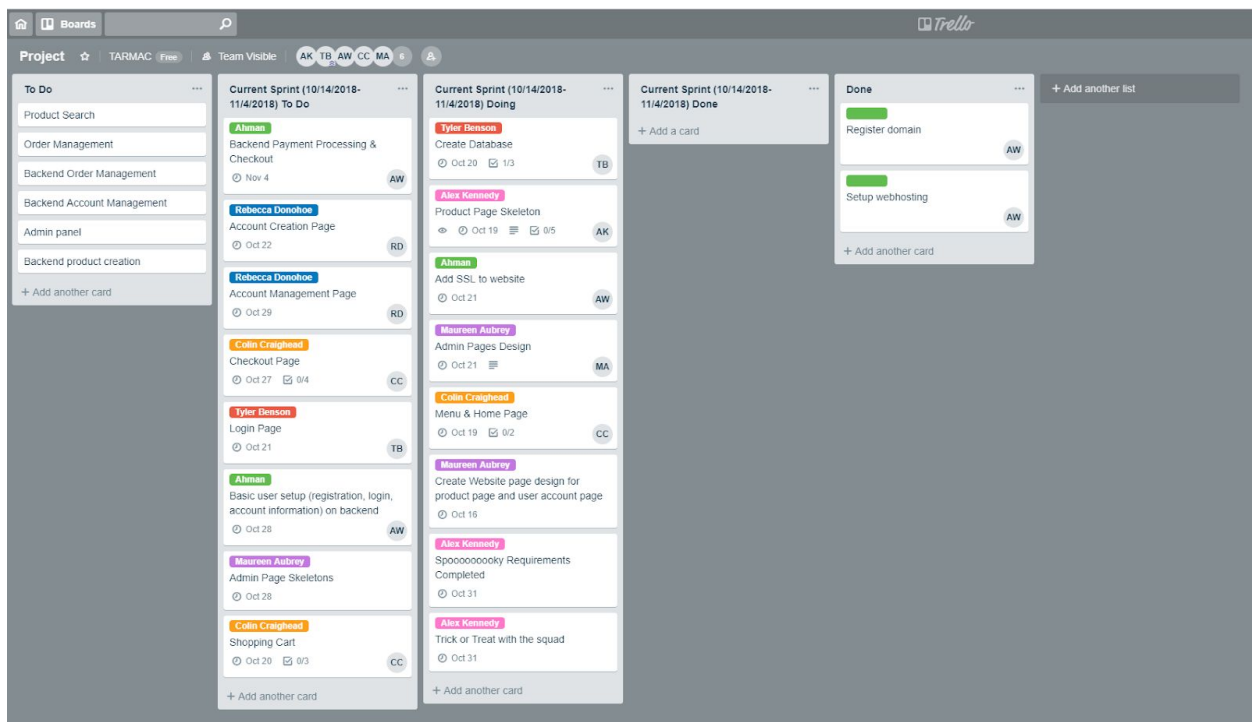
Project Management Tool

Project Management Software

Tarmac is using *Trello* in order to track progress in the project. This management tool will allow the group to know where each part of the project is in terms of progress. There are "To Do", "Doing", and "Done" sections that allow the group to move each task in real time so everybody in the group knows the current progress. We have updated our "Doing" section to be three sections, "Current Sprint To Do", "Current Sprint Doing", and "Current Sprint Done" so that we may better understand the progress of the current sprint in real time.

At the end of each sprint we can transfer the tasks that we will work on in the following sprint from To Do to Sprint To Do, and transfer the tasks that we finish from Sprint Done to Project Done. This gives us more control over the tasks that we are focusing on, allows us to encapsulate smaller pieces of the project into sprints, and provides the team with more specificity of the exact challenges that we are tackling in each sprint.

We like Trello because it allows us to see who is working on a task through color and text labels and can easily see when its anticipated to be finished. We also find the checklist tool to be a great resource so that we can break down each task into its individual elements.

Required Features (Backlog)

Intended functionality
- Login page
  - Page to create account
  - Page allows you to login to ones account
- Payment processing
  - Checkout page
- Search
  - Accessible from every page in the toolbar
- Product Pages
  - Two levels
    - Category Page (e.g. couches, tables, etc.)
    - Individual Product Page (e.g. mahogany bed frame)
      - Description of product
      - Dynamic imagebox that changes based on the features chosen
      - Add to cart function
      - Add to wish list function
      - Unique product identifier
      - Menu features carried over from the rest of the site to navigate to other products
      - Recommended products from the same category
- Order Management
  - Access old orders
- Registration
  - Add user information into the database
- Add to shopping cart
  - Temporary storage while browsing
- Shopping cart page
  - Add/Remove
  - All items and prices displayed
- Account management for users
  - Change password
  - See orders
  - Account details
- Account management for Admin
  - Restock items
  - Remove items from the store
  - Remove users
  - Add new items
  - Add new Admin accounts

Database
- Relational Database in SQL
- Hosted on server
- Communication with front and back end

Control panel for admins
- Manage products
    - Add, remove, or modify products
- Manage user accounts
    - Remove, or change user accounts
- Order stats and tracking
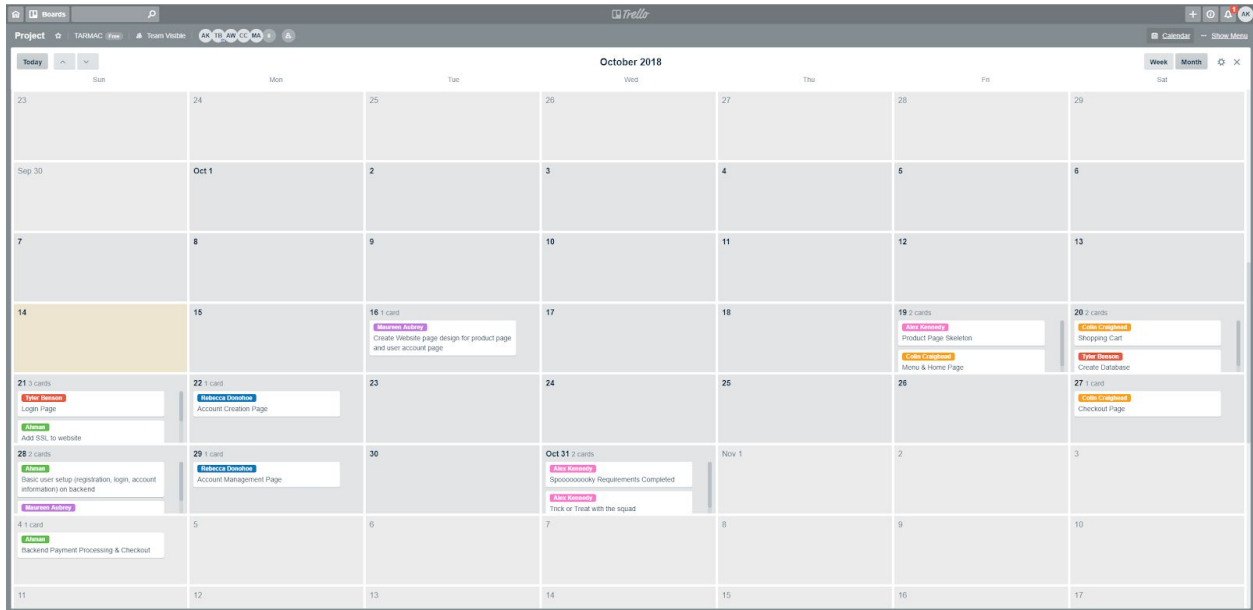   - Information about each order made on the website

Project Plan

We plan to do our project in three sprints and continually evaluate our progress so that we may add shorter sprints or start sprints early if we have made enough progress. The first three week sprint will focus on getting basic functionality of our app. We have divided this sprint into sub sprints so we may have both the advantages of weekly and longer goals. We have assigned different web pages to each design so that when we meet next we can link them together. We will then link the pages to the database for basic functionality. The database will be populated by the end of first week of this sprint so that those members who wish to begin adding functionality can access the database.

The second sprint will be to get all the desired functionality implemented. We will divide the remaining tasks among the group to ensure that more difficult features such as account management can be best completed. The goal for the end of this sprint is to have a working product with all of our required features.

The last sprint is shorter, at only two weeks due to time constraints. Since we hope to have basic functionality completed by this time, we will be using this sprint to add any extra features and to polish the aesthetics of the website. This phase will also give the group time to plan our the presentation at the end of this final sprint.

Three Week Sprint

Agile Methodology

Agile Scrum

Tyler
- Completed Since Last Meeting
  -
- Completing Before Next Meeting
  - Create DDL for database in SQL
  - Second layer for each category (couches, table, etc)
  - Login Page
- Roadblocks?
  - Interfacing the web scraper
  - Learning HTML and bootstrapping

Ahman
- Completed Since Last Meeting
  - Registered Domain
  - Domain pointing to web host
- Completing Before Next Meeting
  - SSL for website
  - Potentially part of backend login system

- ● Roadblocks?
  - ○ Learning how to use bootstrap

Alex
- ● Completed Since Last Meeting
  - ○ Web scraper turns IKEA products into CSV
- ● Completing Before Next Meeting
  - ○ Turn products into JSON
  - ○ Part of the skeleton for Product pages
  - ○ Milestone 2 - my part
  - ○ Upload Data CSV/JSON to Github
  - ○ Familiarize with the HTML and CSS already created
- ● Roadblocks?
  - ○ Learning how to use bootstrap
  - ○ Making something cohesive with the rest of the website

Colin
- ● Completed Since Last Meeting
  - ○ Created the home page and menu
  - ○ Worked on the look for the site
- ● Completing Before Next Meeting
  - ○ Create the shopping cart
  - ○ Checkout page
- ● Roadblocks?
  - ○ Learning bootstrap and html
  - ○ Making the layout look appealing

Maureen
- ● Completed Since Last Meeting
  - ○ Completed a skeleton of the login and new user account page
- ● Completing Before Next Meeting
  - ○ Complete login/new user account page
  - ○ Do design for account page and product page
  - ○ Admin base design and skelton
- ● Roadblocks?
  - ○ Learning to do bootstrap/web page interface

Rebecca
- ● Completed Since Last Meeting
- ● Completing Before Next Meeting
  - ○ Creation of account creation page
  - ○ Start working on account management page
- ● Roadblocks?
  - ○ Making sure it integrates with the rest of the website

Sprint Retrospective

We've done several things well through this first sprint of the project. By delegating the work we have been able to get the foundation of the project planned and have begun implementation. Communicating on Discord has been very useful because it allows several forms of communication and sends email notifications when someone is chatting. This has made collaboration far easier and has helped us move the project forward throughout the week instead of just during our weekly meeting.

We found that we need to be more active in communication. With Discord as our primary form of communication, there has been some delay in response when members don't login regularly.

There are also several things we need to improve upon in the next sprint. As a group, we all need to make the effort to physically meet instead of just over Discord. The next few meetings will involve linking our individual work to the group, so physical presence important. We also need to better divide our tasks into subtasks so that more members can work on a single task, like communication from the website to the database.