*eHappenings* Event Planning Application

Project Plan

**Project Overview**

The *eHappenings* application is a web-based application used for planning events, such as parties, BBQs and weddings. The end-user can define:

* Events
* Menus
* Ingredients lists for the menus and where to buy the ingredients
* Task Lists for organizing the tasks for an event
* Event invitees

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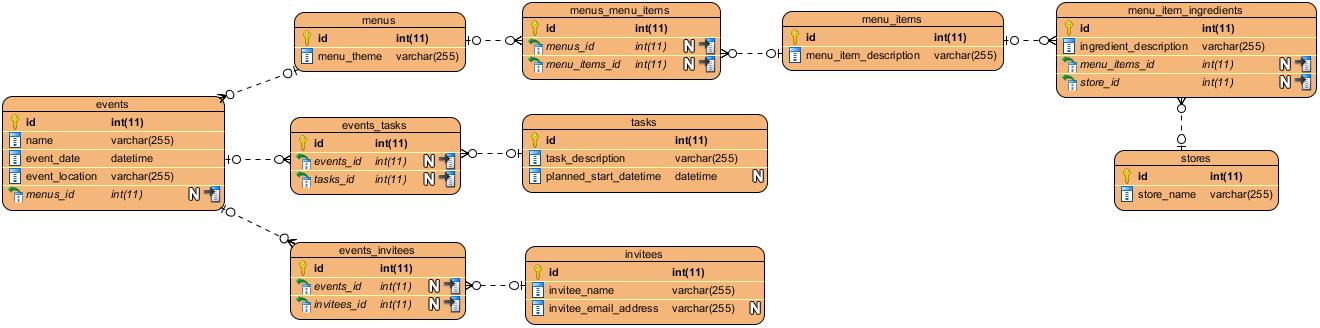
**Roles and Tasks**

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| **Backend Tasks** | | | |  | **Frontend Tasks** | |
| **Database Design and Setup** | **Project Setup** | **Controllers and Controller Tests** | **Models and Model Tests** |  | **Views** | **Styling** |
| Create database objects (10 tables) | Develop Project plan  Setup directory structure  Populate project setup files (program.cs, startup.cs, csproj, database.cs)  Populate README.md | Create controllers (8 controllers)  Create controller tests | Create models, constructors, getters, setters and other methods  Create model tests |  | Create view files | Develop styling theme  Apply styling to each view file |

**Project Milestones**

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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** |
| * Database design and setup complete. * Events controller and model and related tests complete. * Events views complete. * Menus controller and model and related tests complete. * Menus views complete. * Menu Items controller and model and related tests complete. * Menu Items views complete. * Menu Items Ingedients controller and model and related tests complete. * Menu Items Ingredients views complete. | * Tasks controller and model and related tests complete. * Tasks views complete. * Invitees controller and model and related tests completed. * Invitees views complete. * Stores controller and model and related tests complete. * Stores views complete. | * Styling is complete. * Fully-functional application complete. | * Final bug fixes. * Final cosmetic changes. * Present application to class. |

**Database Diagram**



**Controllers & Routes**

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| **Controller** | **Route** | **Route Method** | **Class Method(s)** | **View File** | **Purpose** |
| HomeController | HttpGet(“/”) | Index() |  | Home/Index.cshtml | Display the splash page. |
| EventsController | HttpGet(“/events”) | Index() | GetAll() | Events/Index.cshtml | Display all events. |
| HttpGet(“/events/new”) | New() |  | Events/New.cshtml | Display a form for adding an event. |
| HttpPost(“/events”) | Create() | Save() | Events/New.cshtml | Add an event to the database. |
| HttpGet(“/events/{eventId}”) | Show() | Find()  GetTasks()  GetInvitees() | Events/Show.cshtml | Display the details for one event with options to add and remove tasks and invitees. |
| HttpPost(“/events/{eventId}/tasks/new”) | AddTask() | Find()  Task.Find()  AddTask() | Events/Show.cshtml | Add a task for the event to the database. |
| HttpPost(“/events/{eventId}/tasks/delete”) | DeleteTask() | DeleteTask() | Events/Show.cshtml | Delete a task for an event from the database. |
| HttpPost(“/events/{eventId}/invitees/new”) | AddInvitee() | Find()  Invitee.Find()  AddInvitee() | Events/Show.cshtml | Add an invitee for the event to the database. |
| HttpPost(“/events/{eventId}/invitees/delete”) | DeleteInvitee() | DeleteInvitee() | Events/Show.cshtml | Delete an invitee for an event from the database. |
| HttpGet(“/events/{eventId}/delete”) | Delete() | Delete() | Events/Index.cshtml | Delete an event. |
| HttpPost(“/events/delete”) | Delete() | DeleteAll() | Events/Delete.cshtml | Delete all events. |
| HttpGet(“/events/{eventId}/edit”) | Edit() | Find() | Events/Edit.cshtml | Display a form for updating an event. |
| HttpPost(“/events/{eventId}/edit”) | EditPost() | Find()  Edit() | Events/Index.cshtml | Update the properties for an event in the database. |

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| MenusController | HttpGet(“/menus”) | Index() | GetAll() | Menus/Index.cshtml | Display all menus. |
| HttpGet(“/menus/new”) | New() |  | Menus/New.cshtml | Display a form for adding a menu. |
| HttpPost(“/menus”) | Create() | Save() | Menus/New.cshtml | Add a menu to the database. |
| HttpGet(“/menus/{menuId}”) | Show() | Find()  GetTasks()  GetInvitees() | Menus/Show.cshtml | Display the details for one menu with options to add and remove menu items. |
| HttpPost(“/menus/{menuId}/items/new”) | AddMenuItem() | Find()  Item.Find()  AddItem() | Menus/Show.cshtml | Add a menu item for the menu to the database. |
| HttpPost(“/menus/{menuId}/items/delete”) | DeleteMenu  Item() | DeleteTask() | Menus/Show.cshtml | Delete a menu item for a menu from the database. |
| HttpGet(“/menus/{menuId}/delete”) | Delete() | Delete() | Menus/Index.cshtml | Delete a menu. |
| HttpPost(“/menus/delete”) | Delete() | DeleteAll() | Menus/Delete.cshtml | Delete all menus. |
| HttpGet(“/menus/{menuId}/edit”) | Edit() | Find() | Menus/Edit.cshtml | Display a form for updating a menu. |
| HttpPost(“/menus/{menuId}/edit”) | EditPost() | Find()  Edit() | Menus/Index.cshtml | Update the properties for a menu in the database. |
| MenuItemsController | HttpGet(“/menuItems”) | Index() | GetAll() | MenuItems/Index.cshtml | Display all menu items. |
| HttpGet(“/menuItems/new”) | New() |  | MenuItems/New.cshtml | Display a form for adding a menu item. |
| HttpPost(“/menuItems”) | Create() | Save() | MenuItems/New.cshtml | Add a menu item to the database. |
| HttpGet(“/menuItems/{menuItemId}”) | Show() | Find()  GetTasks()  GetInvitees() | MenuItems/Show.cshtml | Display the details for one menu item with options to add and remove ingredients. |
| HttpPost(“/menuItems/{menuItemId}/ingredients/new”) | Add  Ingredient() | Find()  MenuItems  Ingredients.  Find()  AddTask() | MenuItems/Show.cshtml | Add an ingredient for the menu item to the database. |
| HttpPost(“/menuItems/{menuItemId}/ingredients/delete”) | Delete  Ingredient() | Delete  MenuItem  Ingredients() | MenuItems/Show.cshtml | Delete an ingredient for a menu item from the database. |
| HttpPost(“/menuItems/{menuItemId}/menu/new”) | AddMenu() | AddMenu() | MenuItems/Show.cshtml | Add the menu item to a menu in the database. |
| HttpPost(“/menuItems/{menuItemId}/menu/delete”) | DeleteMenu() | DeleteMenu() | MenuItems/Show.cshtml | Delete the menu item from a menu in the database. |
| HttpGet(“/menuItems/{menuItemId}/delete”) | Delete() | Delete() | MenuItems/Index.cshtml | Delete a menu item. |
| HttpPost(“/menuItems/delete”) | Delete() | DeleteAll() | MenuItems/Delete.cshtml | Delete all menu items. |
| HttpGet(“/menuItems/{menuItemId}/edit”) | Edit() | Find() | MenuItems/Edit.cshtml | Display a form for updating a menu item. |
| HttpPost(“/menuItems/{menuItemId}/edit”) | EditPost() | Find()  Edit() | MenuItems/Index.cshtml | Update the properties for a menu item in the database. |

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| MenuItemIngredientsController | HttpGet(“/menuItemIngredients”) | Index() | GetAll() | MenuItemIngredient/  Index.cshtml | Display all menu item ingredients. |
| HttpGet(“/menuItemIngredients/new”) | New() |  | MenuItemIngredient/  New.cshtml | Display a form for adding a menu item ingredient. |
| HttpPost(“/menuItemIngredients”) | Create() | Save() | MenuItemIngredient/  New.cshtml | Add a menu item ingredient to the database. |
| HttpGet(“/menuItemIngredients/{menuItemIngredientId}”) | Show() | Find()  GetMenu  Items()  GetInvitees() | MenuItemIngredient/  Show.cshtml | Display the details for one menu item ingredient with options to add and remove menu items. |
| HttpPost(“/menuItemIngredients/{menuItemIngredientId}/  items/new”) | AddMenu Item() | Find()  MenuItems.  Find()  AddTask() | MenuItemIngredient/  Show.cshtml | Add a menu item for the menu item ingredient to the database. |
| HttpPost(“/menuItemIngredients/{menuItemIngredientId}/  items/delete”) | DeleteMenu  Item() | DeleteTask() | MenuItemIngredient/  Show.cshtml | Delete a menu item for a menu item ingredient from the database. |
| HttpGet(“/menuItemIngredients/{menuItemIngredientId}/  delete”) | Delete() | Delete() | MenuItemIngredient/  Index.cshtml | Delete a menu item ingredient. |
| HttpPost(“/menuItemIngredients/delete”) | Delete() | DeleteAll() | MenuItemIngredient/  Delete.cshtml | Delete all menu item iIngredients. |
| HttpGet(“/menuItemIngredients/{menuItemIngredientId}  /edit”) | Edit() | Find() | MenuItemsIngredients/  Edit.cshtml | Display a form for updating a menu item ingredient. |
| HttpPost(“/menuItemIngredients/{menuItemIngredientId}  /edit”) | EditPost() | Find()  Edit() | MenuItemsIngredients/  Index.cshtml | Update the properties for a menu item ingredient in the database. |
| StoresController | HttpGet(“/stores”) | Index() | GetAll() | Stores/Index.cshtml | Display all stores. |
| HttpGet(“/stores/new”) | New() |  | Stores/New.cshtml | Display a form for adding a store. |
| HttpPost(“/stores”) | Create() | Save() | Stores/New.cshtml | Add a store to the database. |
| HttpGet(“/stores/{storeId}”) | Show() | Find()  GetTasks()  GetInvitees() | Stores/Show.cshtml | Display the details for one store. |
| HttpGet(“/stores/{storeId}/delete”) | Delete() | Delete() | Stores/Index.cshtml | Delete a store. |
| HttpPost(“/stores/delete”) | Delete() | DeleteAll() | Stores/Delete.cshtml | Delete all stores. |
| HttpGet(“/stores/{storeId}/edit”) | Edit() | Find() | Stores/Edit.cshtml | Display a form for updating a store. |
| HttpPost(“/stores/{storeId}/edit”) | EditPost() | Find()  Edit() | Stores/Index.cshtml | Update the properties for a store in the database. |

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| --- | --- | --- | --- | --- | --- |
| TasksController | HttpGet(“/tasks”) | Index() | GetAll() | Tasks/Index.cshtml | Display all tasks. |
| HttpGet(“/tasks/new”) | New() |  | Tasks/New.cshtml | Display a form for adding a task. |
| HttpPost(“/tasks”) | Create() | Save() | Tasks/New.cshtml | Add a task to the database. |
| HttpGet(“/tasks/{taskId}”) | Show() | Find()  GetTasks()  GetInvitees() | Tasks/Show.cshtml | Display the details for one task with options to add and remove events. |
| HttpPost(“/tasks/{taskId}/event/new”) | AddEvent() | Find()  Event.Find()  AddEvent() | Tasks/Show.cshtml | Add an event for the task to the database. |
| HttpPost(“/tasks/{taskId}/event/delete”) | DeleteEvent() | DeleteEvent() | Tasks/Show.cshtml | Delete an event for a task from the database. |
| HttpGet(“/tasks/{taskId}/delete”) | Delete() | Delete() | Tasks/Index.cshtml | Delete a task. |
| HttpPost(“/tasks/delete”) | Delete() | DeleteAll() | Tasks/Delete.cshtml | Delete all tasks. |
| HttpGet(“/tasks/{taskId}/edit”) | Edit() | Find() | Tasks/Edit.cshtml | Display a form for updating a task. |
| HttpPost(“/tasks/{taskId}/edit”) | EditPost() | Find()  Edit() | Tasks/Index.cshtml | Update the properties for a task in the database. |
| InviteesController | HttpGet(“/invitees”) | Index() | GetAll() | Invitees/Index.cshtml | Display all invitees. | |
| HttpGet(“/invitees/new”) | New() |  | Invitees/New.cshtml | Display a form for adding an invitee. | |
| HttpPost(“/invitees”) | Create() | Save() | Invitees/New.cshtml | Add an invitee to the database. | |
| HttpGet(“/invitees/{inviteeId}”) | Show() | Find()  GetInvitees()  GetInvitees() | Invitees/Show.cshtml | Display the details for one invitee with options to add and remove events. | |
| HttpPost(“/invitees/{inviteeId}/event/new”) | AddEvent() | Find()  Event.Find()  AddEvent() | Invitees/Show.cshtml | Add an event for the invitee to the database. | |
| HttpPost(“/invitees/{inviteeId}/event/delete”) | DeleteEvent() | DeleteEvent() | Invitees/Show.cshtml | Delete an event for a invitee from the database. | |
| HttpGet(“/invitees/{inviteeId}/delete”) | Delete() | Delete() | Invitees/Index.cshtml | Delete an invitee. | |
| HttpPost(“/invitees/delete”) | Delete() | DeleteAll() | Invitees/Delete.cshtml | Delete all invitees. | |
| HttpGet(“/invitees/{inviteeId}/edit”) | Edit() | Find() | Invitees/Edit.cshtml | Display a form for updating an invitee. | |
| HttpPost(“/invitees/{inviteeId}/edit”) | EditPost() | Find()  Edit() | Invitees/Index.cshtml | Update the properties for an invitee in the database. | |

**Models**

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| **Model Name** | **Model Properties** | **Property Data Types** | **Model Methods** | **Method Descriptions** |
| Event | id  name  eventDate  eventLocation  menuId | int  string  DateTime  string  int | Event() | Constructor Method. |
| GetId() | Getter Method for Id. |
| GetName() | Getter Method for Name. |
| SetName() | Setter Method for Name. |
| GetEventDate() | Getter Method for EventDate. |
| SetEventDate() | Setter Method for EventDate. |
| GetEventLocation() | Getter Method for EventLocation. |
| SetEventLocation() | Setter Method for EventLocation. |
| ClearAll() | Method for deleting test data. |
| Save() | Method for saving new events. |
| GetAll() | Method for getting all events. |
| Find() | Method for finding an event. |
| Edit() | Method for updating an event’s properties. |
| Delete() | Method for deleting an individual event. |
| DeleteAll() | Method for deleting all events. |
| GetMenu() | Method for getting the menu and menu items for an event. |
| AddTask() | Method for adding a task to an event. |
| DeleteTask() | Method for deleting a task from an event. |
| GetTasks() | Method for getting all tasks for an event. |
| AddInvitee() | Method for adding an invitee to an event. |
| DeleteInvitee() | Method for removing an invitee from an event. |
| GetInvitees() | Method for getting all invitees for an event. |
| Equals() | Method for overriding default Equals behavior. |
| Menu | id  menuTheme | int  string | Menu() | Constructor Method. |
| GetId() | Getter Method for Id. |
| GetMenuTheme() | Getter Method for MenuTheme. |
| SetMenuTheme() | Setter Method for MenuTheme. |
| ClearAll() | Method for deleting test data. |
| Save() | Method for saving new menus. |
| GetAll() | Method for getting all menus. |
| Find() | Method for finding a menu. |
| Edit() | Method for updating a menu’s properties. |
| Delete() | Method for deleting an individual menu. |
| DeleteAll() | Method for deleting all menus. |
| AddMenuItem() | Method for adding a menu item. |
| DeleteMenuItem() | Method for deleting a menu item. |
| GetMenuItems() | Method for getting menu items for a menu. |
| Equals() | Method for overriding default Equals behavior. |

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| --- | --- | --- | --- | --- |
| MenuItem | id  menuItemDescription | int  string | MenuItem() | Constructor Method. |
| GetId() | Getter Method for Id. |
| GetMenuItemDescription() | Getter Method for MenuItemDescription. |
| SetMenuItemDescription () | Setter Method for MenuItemDescription. |
| ClearAll() | Method for deleting test data. |
| Save() | Method for saving new menu items. |
| GetAll() | Method for getting all menu items. |
| Find() | Method for finding a menu item. |
| Edit() | Method for updating a menu item’s properties. |
| Delete() | Method for deleting an individual menu item. |
| DeleteAll() | Method for deleting all menu items. |
| AddMenu() | Method for adding a menu item to a menu. |
| DeleteMenu() | Method for removing a menu item from a menu. |
| GetMeus() | Method for getting all menus that have the menu item. |
| AddMenuItemIngredient() | Method for adding a menu item ingredient to a menu item. |
| DeleteMenuItemIngredient() | Method for removing a menu item ingredient from a menu item. |
| GetMenuItemIngredients() | Method for getting all menu items ingredients for a menu item. |
| Equals() | Method for overriding default Equals behavior. |
| MenuItemIngredient | id  ingredientDescription  menuItemsId  storeId | int  string  int  int | MenuItemIngredient() | Constructor Method. |
| GetId() | Getter Method for Id. |
| GetIngredientDescription() | Getter Method for IngredientDescription. |
| SetIngredientDescription() | Setter Method for IngredientDescription. |
| GetMenuItemsId() | Getter Method for MenuItemsId. |
| SetMenuItemsId() | Setter Method for MenuItemsId. |
| GetStoreId() | Getter Method for StoreId. |
| SetStoreId() | Setter Method for StoreId. |
| ClearAll() | Method for deleting test data. |
| Save() | Method for saving a new menu item ingredient. |
| GetAll() | Method for getting all menu item ingredients. |
| Find() | Method for finding a menu item ingredient. |
| Edit() | Method for updating a menu item ingredient’s properties. |
| Delete() | Method for deleting an individual menu item ingredient. |
| DeleteAll() | Method for deleting all menu items ingredients. |
| AddMenuItem() | Method for adding the menu item ingredient to a menu item. |
| DeleteMenuItem() | Method for removing the menu item ingredient from a menu item. |
| GetMenuItem() | Method for getting all menu items that have the ingredient. |
| Equals() | Method for overriding default Equals behavior. |
| Store | id  storeName | int  string | Store() | Constructor Method. |
| GetId() | Getter Method for Id. |
| GetStoreName() | Getter Method for StoreName. |
| SetStoreName() | Setter Method for StoreName. |
| ClearAll() | Method for deleting test data. |
| Save() | Method for saving a new store. |
| GetAll() | Method for getting all stores. |
| Find() | Method for finding a store. |
| Edit() | Method for updating a store’s properties. |
| Delete() | Method for deleting an individual store. |
| DeleteAll() | Method for deleting all stores. |
| Equals() | Method for overriding default Equals behavior. |

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| --- | --- | --- | --- | --- |
| Task | id  taskDescription  taskPlannedStartDateTime | int  string  DateTime | Task() | Constructor Method. |
| GetId() | Getter Method for Id. |
| GetTaskDescription() | Getter Method for TaskDescription. |
| SetTaskDescription() | Setter Method for TaskDescription. |
| GetTaskPlannedStartDateTime() | Getter Method for TaskPlannedStartDateTime. |
| SetTaskPlannedStartDateTime() | Setter Method for TaskPlannedStartDateTime. |
| ClearAll() | Method for deleting test data. |
| Save() | Method for saving new tasks. |
| GetAll() | Method for getting all tasks. |
| Find() | Method for finding a task. |
| Edit() | Method for updating a task’s properties. |
| Delete() | Method for deleting an individual task. |
| DeleteAll() | Method for deleting all tasks. |
| AddEvent() | Method for adding a task to an event. |
| DeleteEvent() | Method for deleting a task from n event. |
| GetEvents() | Method for getting events that have the task. |
| Equals() | Method for overriding default Equals behavior. |
| Invitee | id  inviteeName  inviteeEmailAddress | int  string  string | Invitee() | Constructor Method. | |
| GetId() | Getter Method for Id. | |
| GetInviteeName() | Getter Method for InviteeName. | |
| SetInviteeName() | Setter Method for InviteeName. | |
| GetInviteeEmailAddress() | Getter Method for InviteeEmailAddress. | |
| SetInviteeEmailAddress() | Setter Method for InviteeEmailAddress. | |
| ClearAll() | Method for deleting test data. | |
| Save() | Method for saving new invitees. | |
| GetAll() | Method for getting all invitees. | |
| Find() | Method for finding an invitee. | |
| Edit() | Method for updating an invitee’s properties. | |
| Delete() | Method for deleting an individual invitee. | |
| DeleteAll() | Method for deleting all invitees. | |
| AddEvent() | Method for adding an invitee to an event. | |
| DeleteEvent() | Method for deleting an invitee from n event. | |
| GetEvents() | Method for getting events that have the invitee. | |
| Equals() | Method for overriding default Equals behavior. | |

**Controller Tests**

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| **Controller** | **Controller Tests** | **Purpose** |
| HomeController | Index\_ReturnsCorrectView\_True()  Index\_HasCorrectModelType\_EventList() |  |
| EventsController | Index\_ReturnsCorrectView\_True()  New\_ReturnsCorrectView\_True()  Show\_ReturnsCorrectView\_True()  Create\_ReturnsCorrectActionType\_ViewResult() |  |
| MenusController |  |  |
| MenuItemsController |  |  |
| MenuItemIngredientsController |  |  |
| StoresController |  |  |
| TasksController |  |  |
| InviteesController |  |  |

**Model Tests**

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| --- | --- | --- |
| **Model** | **Model Tests** | **Purpose** |
| Event | EventConstructor\_CreatesInstanceOfEvent\_Event()  GetName\_ReturnsName\_String()  SetName\_SetName\_String()  GetEventDate\_ReturnsEventDate\_DateTime()  SetEventDate\_SetEventDate\_DateTime()  GetEventLocation\_ReturnsEventLocation\_String()  SetEventLocation\_SetEventLocation\_String()  GetMenuId\_ReturnsMenuId\_Int()  SetMenuId\_SetMenuId\_Int()  Save\_SavesEventToDatabase\_EventList()  GetAll\_ReturnsAllEventeObjects\_EventList()  Find\_ReturnsEventInDatabase\_Event()  GetTasks\_RetrievesAllTasksForEvent\_TaskList()  GetInvitees\_RetrievesAllInviteesForEvent\_InviteeList() |  |
| Menu |  |  |
| MenuItem |  |  |
| MenuItemIngredient |  |  |
| Store |  |  |
| Task |  |  |
| Invitee |  |  |

**Collaboration with Git**

1. Clone the repository to your desktop:

git clone <https://github.com/MarkStrickland562/EventPlanner.Solution>

1. Change into the project directory:

cd EventPlanner.Solution

1. Create your feature branch:

git branch mark\_strickland

1. Switch to you branch:

git checkout mark\_strickland

1. Make changes and commit to your branch often:

git add .

git commit –m “Add blah blah blah.”

1. Several times each day, update your local master branch:

git checkout master

git pull origin master

1. After updating your local master branch, merge your local master branch into your feature branch:

git checkout mark\_strickland

git merge master

1. Verify that the project still works correctly.
2. Push your feature branch to the repository:

git push origin mark\_strickland

1. In Github, navigate to your feature branch and select *New Pull Request*.
2. Add a description of the features being added.
3. Click *Create Pull Request* and send it to project collaborators.