*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:

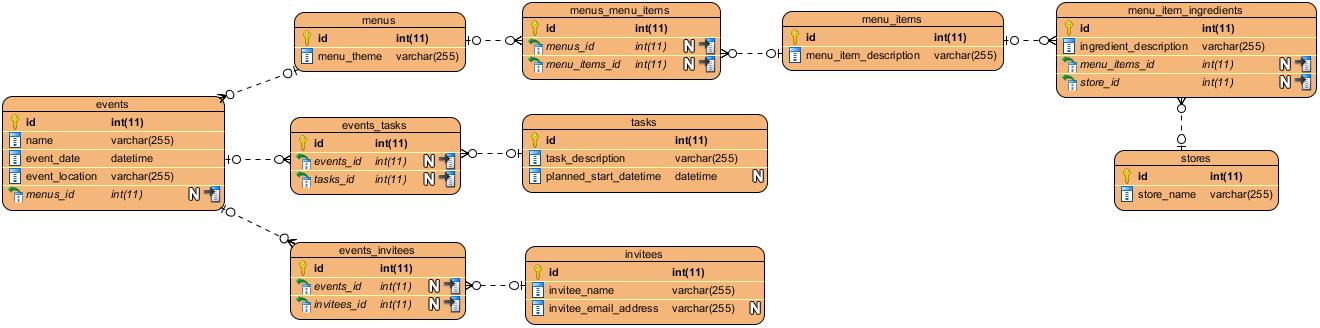
* Events
* Menus
* Ingredients lists for the menus and where to buy the ingredients
* Task Lists for organizing the tasks for an event
* Event invitees

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**Task Overview**

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| --- | --- |
| **Backend Tasks** | **Frontend Tasks** |
| Setup directory structure  Populate project setup files (program.cs, startup.cs, csproj, database.cs)  Create database objects (10 tables)  Create models, constructors, getters, setters and other methods  Create controllers (8 controllers)  Create model tests  Create controller tests | Create view files  Develop styling theme  Apply styling to each view file  Populate README.md |

**Database Diagram**



**Controllers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Controller** | **Route(s)** | **Route Method(s)** | **View File(s)** |
| HomeController | HttpGet(“/”) | Index() | Home/Index.cshtml |
| EventsController | HttpGet(“/events”)  HttpGet(“/events/new”)  HttpPost(“/events”)  HttpGet(“/events/{id}”)  HttpPost(“/events/{eventId}/tasks/new”)  HttpPost(“/events/delete”)  HttpPost(“/events/{eventId}”) | Index()  New()  Create()  Show()  AddTask()  DeleteAll()  Update() | Events/Index.cshtml  Events/New.cshtml  Events/New.cshtml  Events/Show.cshtml  Events/Show.cshtml  Events/Delete.cshtml  Events/Edit.cshtml |
| MenusController |  |  |  |
| MenuItemsController |  |  |  |
| MenuItemIngredientsController |  |  |  |
| StoresController |  |  |  |
| TasksController |  |  |  |
| InviteesController |  |  |  |

**Models**

|  |  |  |  |
| --- | --- | --- | --- |
| **Model** | **Properties** | **Model Methods** | **Method Descriptions** |
| Event | id  name  eventDate  eventLocation  menuId | Event()  GetId()  GetName()  SetName()  GetEventDate()  SetEventDate()  GetEventLocation()  SetEventLocation()  ClearAll()  Save()  GetAll()  Find()  GetTasks()  GetInvitees() | Constructor Method  Getter Method for Id  Getter Method for Name  Setter Method for Name  Getter Method for EventDate  Setter Method for EventDate  Getter Method for EventLocation  Setter Method for EventLocation  Method for deleting test data  Method for saving new events  Method for getting all events  Method for finding an event  Method for getting tasks for an event  Method for getting invitees for an event |
| Menu | id  menuTheme |  |  |
| MenuItem | id  menuItemDescription |  |  |
| MenuItemIngredient | id  ingredientDescription  menuItemsId  storeId |  |  |
| Store | id  storeName |  |  |
| Task | id  taskDescription  taskPlannedStartDateTime |  |  |
| Invitee | id  inviteeName  inviteeEmailAddress |  |  |

**Controller Tests**

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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 |  |  |