Stage 3: Development Plan and Development Environment

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1. Technology

We settled on a standard HTML/CSS/JS frontend, with the backend running on Python with Flask. Our database will run on MySQL.

1. Schema

-table Event{eventId[pk] int, title varchar(50), category varchar(10), hours decimal, date date, facilityName string, facilityArea string, overhead decimal, rentalFee decimal}

-table EventStaffing{department [pk] string, eventide [pk] string, staff int, earnings decimal}

-table Department{department [pk] string, ytdEarning decimal}

EventStaffing to Event: Many-to-One relationship  
EventStaffing to Department: Many-to-One relationship

See attached pdf for schema diagram.

1. Data Source

We have access to a CSV file of booked events for UA Athletics facilities usage, which provides all our data.

1. Task Division

Andrew will focus on the backend, while Danielle will focus on the frontend. The database implementation will be completed collaboratively.

1. Timeline & Milestones

10/3: All team members have development environments set up that can run the project.

10/9: A wireframe of files are running a server; a barebone webpage that will become our project is viewable on the web.

10/16: Database implementation is complete.

10/23: Simplified frontend and non-advanced backend features are live. Project is in a presentable state.

10/30: Project caught up to presentable state; time buffer for unpredicted difficulties.

11/11: Advanced functions are implemented.

11/11-12/3: Iterate on design; seek optimization and improve presentation.