MICHIGAN STATE UNIVERSITY Project Plan ClassView

The Capstone Experience

Team TechSmith

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...to Professionals

Project Overview

Functionalities

- Dashboard View of Google Drive
- For Teachers and Students
- Via Chrome App

Features

- Models the Classroom
 - Helps with Content Management
 - Facilitates Assignments and Collaboration
- Teacher Dashboard and Student Dashboard
- Notifications for Key Events
 - Assignment Posted
 - o Assignment Due
- Assignment "Progress" Mechanism
- Provide Usage Statistics

Functional Specifications

- Teacher Dashboard
 - Create, manage, and modify classes
 - Send assignments and assign projects
 - Track student progress on assignments
 - Monitor student file permissions
- Student Dashboard
 - Create files for classes and view progress
 - Collaborate with fellow students
 - Receive homework reminders

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Design Specifications

- Single page with dynamic content
- Custom GUI built off Google Drive for student dashboard
- Tabular view for multiple class management in teacher dashboard

Screen Mockup: Student Dashboard

A ClassView					×
Rass View				- Q (18	assview14@gmail.c 👻
Files	Math			_+ ()	≣ :: \$
CREATE ▼My Drive	My Drive 🕨 Math				
	TITLE		OWNER 💌	LAST MODIFIED	PROGRESS 💌
► Inve Drive ► Inve ClassView	🗌 🛛 📄 Chapte	er 1 Homework	me	10:17 pm me	50%
🖿 Math	🗌 🗧 Class I	Notes	me	10:18 pm me	
Reading	🗌 📄 Notes		me	10:16 pm me	
Science Social Studies					
Writing					
Recent					
🛱 Trash					

Screen Mockup: Teacher Dashboard

<student name=""></student>
<student name=""></student>

Manage

Screen Mockup: Teacher - Add New Class

	Class1	Class2	Class3	Add New		
					1	
Class Name	e: Cla	ass4				
Student:	Ge	George Smith				
Group:	СТ	eam			Add	
				A Team	n B Team	
Billy Bob Joe Bob						
Student2						
Stormageddon						
				Gro	Groups	

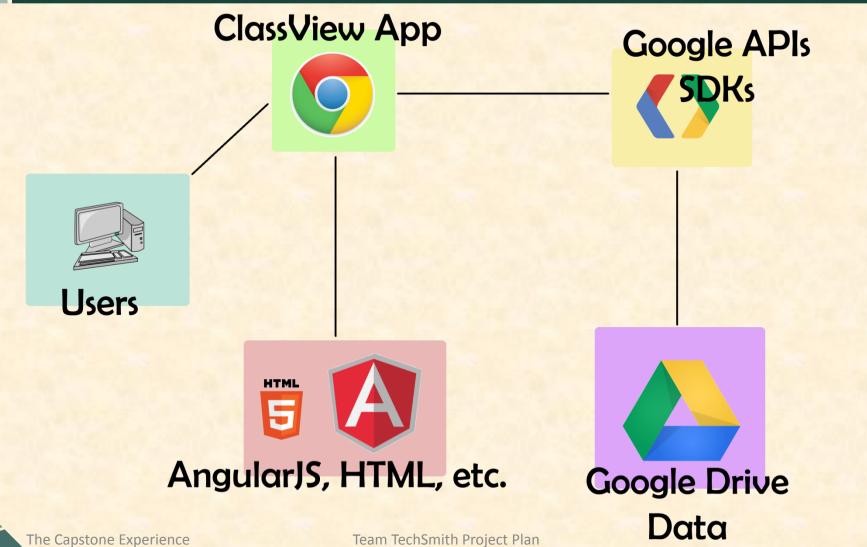
Save

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Technical Specifications

- Chrome App
- Login with OAuth 2.0 through Google account
- Google Drive

System Architecture



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System Components

- Hardware Platforms
 - None
- Software Platforms / Technologies
 AngularJS, Javascript, HTML, CSS
 Google APIs, Google Drive SDK
- Development Environment
 Dreamweaver, Sublime Text

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Testing

- Begin with local, offline testing
- Improve UI design with further research
- Receive client input
- Get educator feedback

Developing two separate apps
Eventually combined



Risks

- Chrome App APIs, HTML, CSS, Javascript, AngularJS
 - Minimal previous experience in the group
 - Working through various tutorials, code samples, examples, etc.
- Extent of API capabilities
 - Not sure if all the requested features are capable with the APIs
 - Figure out alternative methods
- Client are unfamiliar with technologies
 - Neither of our contacts have worked with Google App APIs, Google Drive SDK
 - Technical Resource at TechSmith Randy Schott