

eCommerce CMS

Custom Web Pages for Small Business

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eCommerce CMS – Description

- Content Management System web application that can be launched from any major browser
- Graphical User Interfaces
- Shopping cart and checkout options with payment acceptance assistance
- Easy Sales and Promotions management
- Sales and business report generation
- Target Audience: Small Business Owners looking to start their own eCommerce web site, but not looking to spend money on more expensive, monthly-paid solutions.

eCommerce CMS - Justification

The eCommerce CMS will utilize several technologies including:

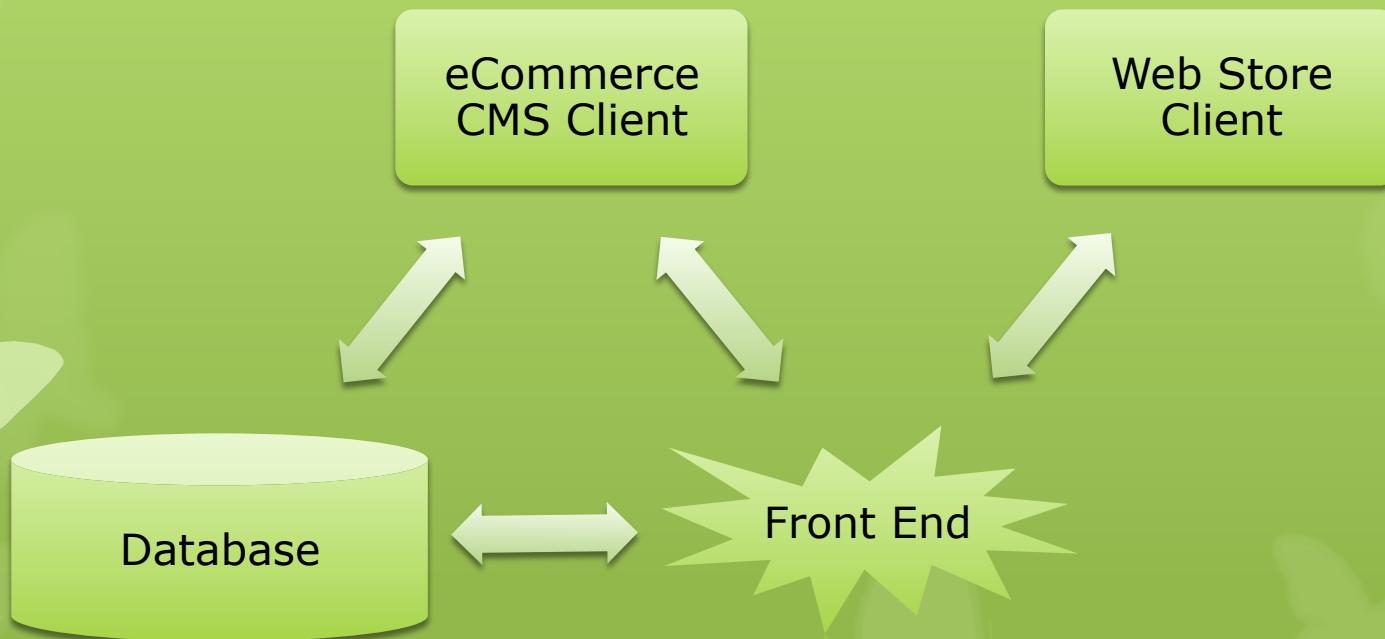
- RESTful web service with HTTP and URI contracts
- Database-driven (SQL or NoSQL, not sure which) inventory management
- JavaScript front end and Java back end architecture

eCommerce CMS represents many of the technologies that we have learned at LMU and offers a specific community a real benefit that can be immediately realized.

eCommerce CMS - Operations

eCommerce CMS Client will have two interfaces: one for editing the front end layout and one for managing inventory data in the database.

Web Store Client will have a user interface designed by the eCommerce CMS Client complete with a shopping cart and a checkout screen with payment options.



eCommerce CMS – User's POV

- Arrangeable templates

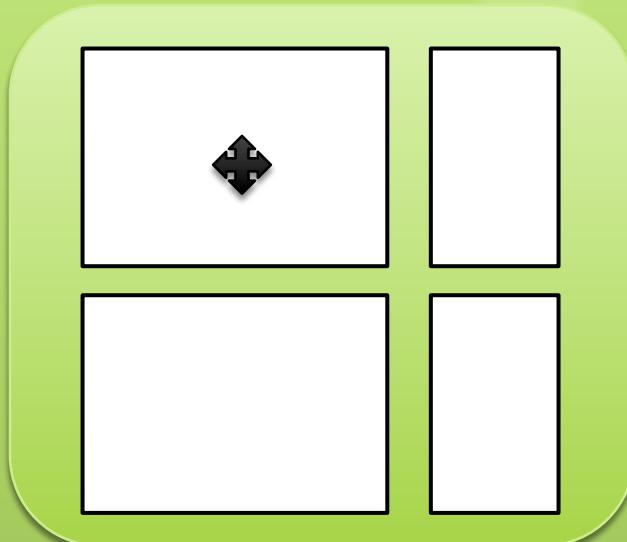
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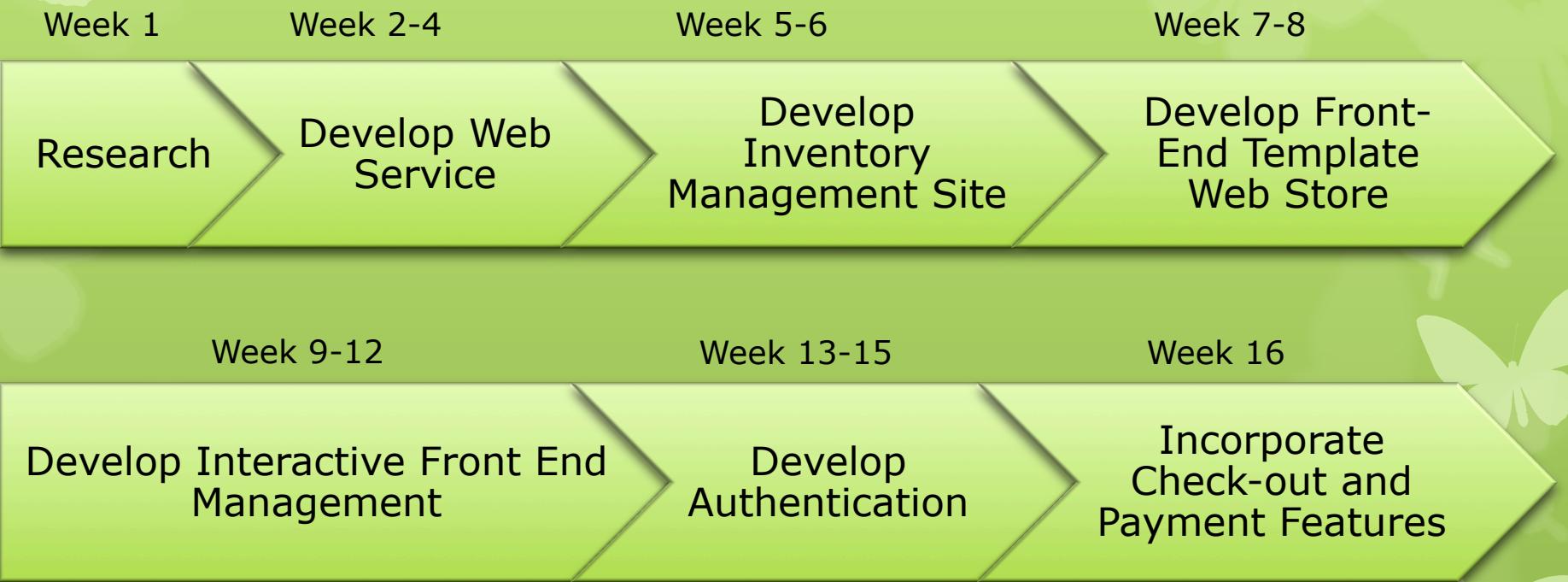


- Inventory input forms

eCommerce CMS - Technologies

- Java – Enterprise-level, class-based, object-oriented computer programming language
- Maven – Framework aggregator and build system
- GitHub – Hosted version control system using Git
- Eclipse – Java IDE
- Jax-RS – Java API for web services
- JAXB – Java XML binding
- Jackson – XML to JSON and vice-versa conversion for Java
- Junit – Unit testing framework for Java
- Mockito – Mocking framework for unit testing
- Spring – Dependency injection
- PostgreSQL – Relational database
- Hibernate – Java object relational mapping
- HTML, CSS, JavaScript – Front end triumvirate

eCommerce CMS – Dev. Schedule



eCommerce CMS - Conclusion

The eCommerce CMS platform offers a niche community an open-source service that typically requires monthly maintenance costs.

Developing the eCommerce CMS will require using many of the various technologies, algorithms, and data structures that we have learned at LMU as well as explore in greater depth some technologies that we were briefly introduced to.

eCommerce CMS - Questions

Any Questions?