

Bitquote

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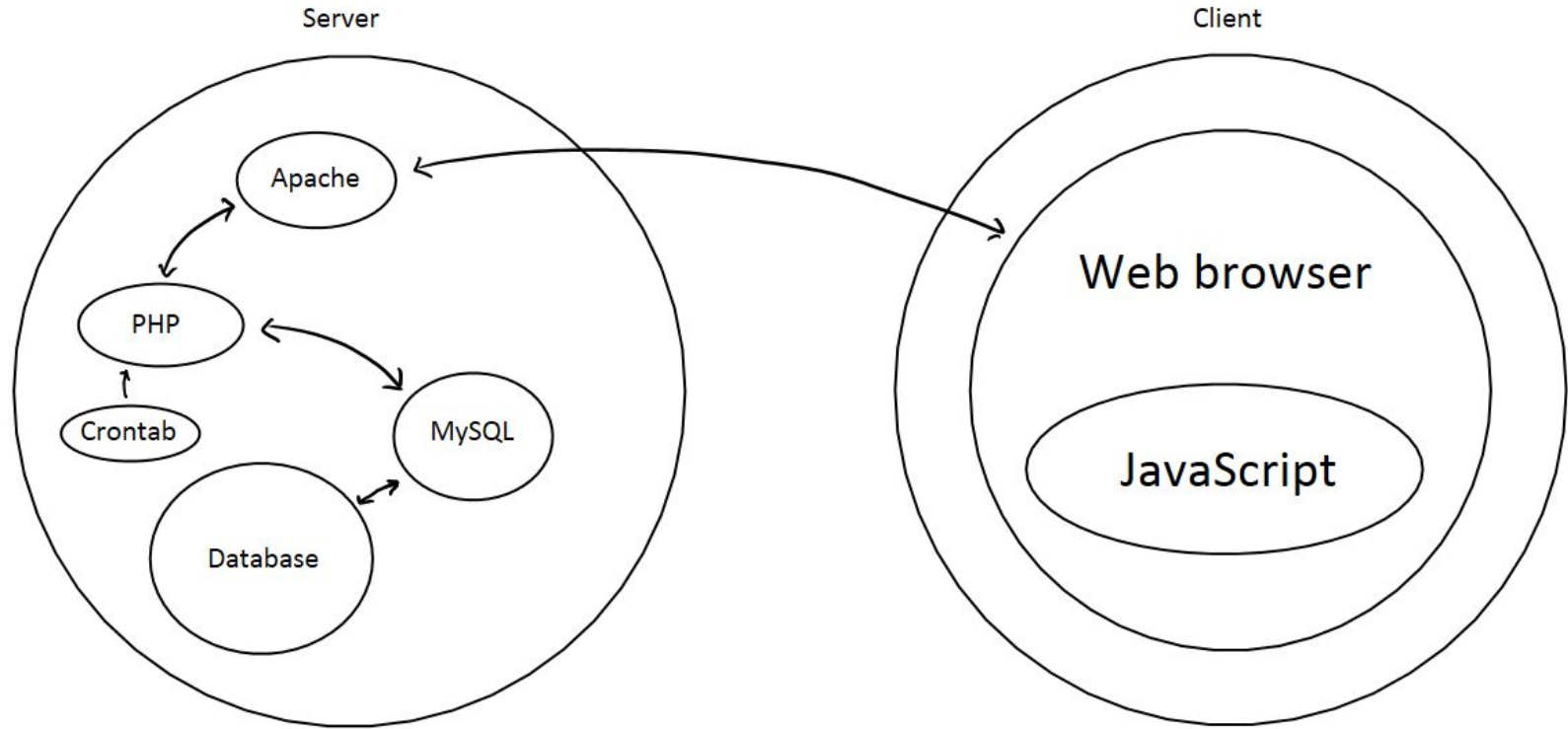
Problem Specification

- ❖ Database-driven website displays a variety of information related to the digital currency, Bitcoin
 - Exchange prices will be compiled in a database from multiple sources
 - The website will also store Bitcoin-related news from multiple sources
- ❖ Users will be able to create an account in order to search the database of Bitcoin news, and customize their main page
- ❖ The website will be available in both desktop and mobile-friendly formats

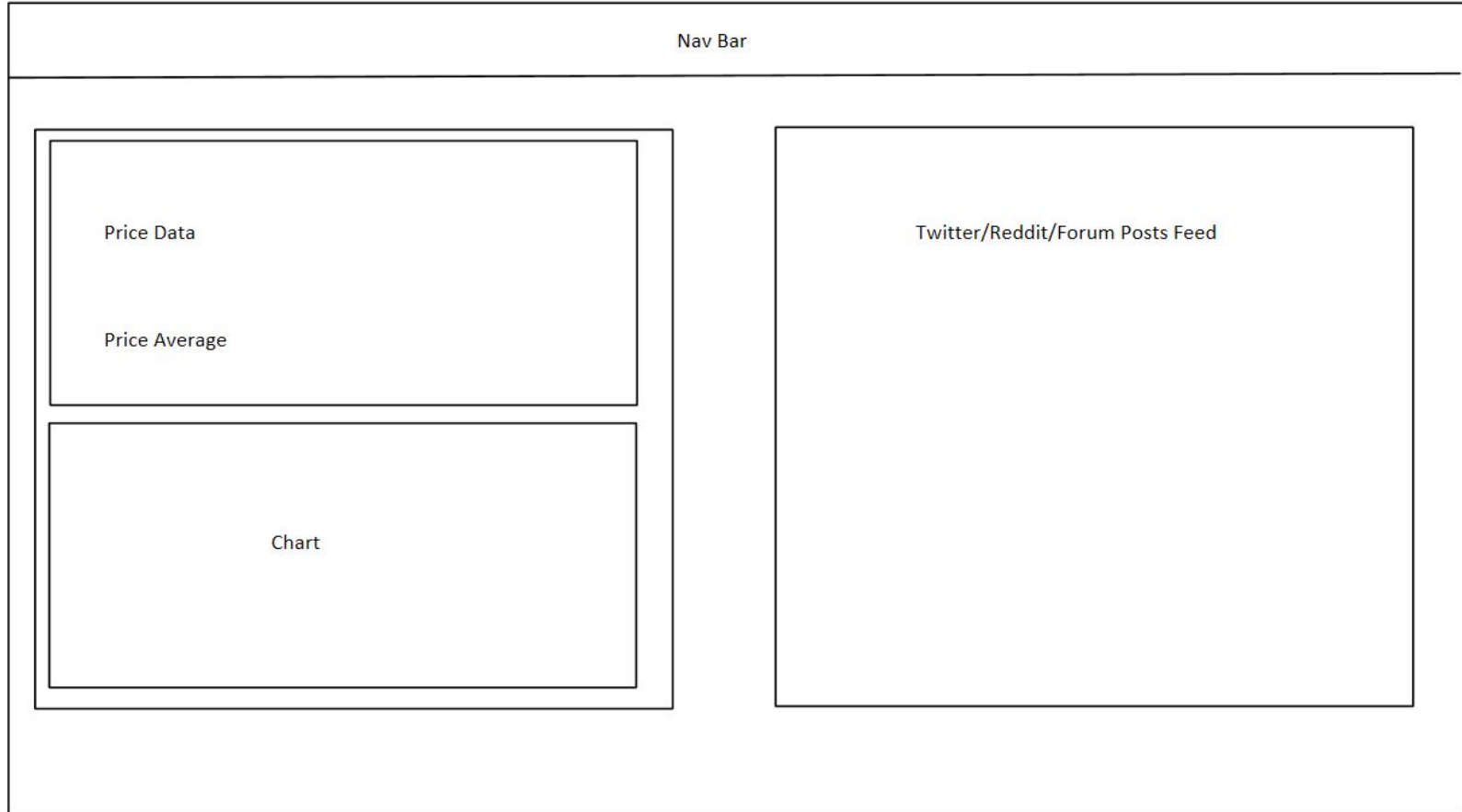
Student Objectives

- ❖ Gain experience with working with existing APIs and APIs of our own creation
- ❖ Practice with databases
- ❖ Learning/expanding our knowledge of PHP and JavaScript
- ❖ Enhance experience in design, implementation, verification, and documentation of a database systems and secure web applications
- ❖ Enhance experience with in depth analysis of a database systems and secure web applications

System Architecture Design



Interface Design



Tools

- ❖ PHP
- ❖ Javascript
- ❖ Notepad++/Geany
- ❖ Apache for hosting the website
- ❖ MySQL
- ❖ Web browser to access website
- ❖ Weblab server
- ❖ Git

Benchmark Specifications

1. Server successfully fetches and properly stores exchange price and news data
2. Web application displays data in a user friendly format on both desktop and mobile devices
3. Web application allows users to register and login securely
4. Registered users can search the news database, and customize their news feed
5. Registered users can customize the exchange price data chart

Project Schedule

- Week 1-2:** Design database structure and database population method
- Week 3-4:** Design main page and bitcoin news feed
- Week 5-6:** Create secure authentication system, and search functionality
- Week 7-8:** Create user customizability options for news and price data
- Week 9-10:** Extensively test the website functionality and security features
- Week 11-12:** Create documentation and screenshots of project functions
- Week 13-14:** Write project analysis and combine project documents
- Week 15:** review and finalize project deliverables

Deliverables

- ❖ Original Proposal and Presentation Files (From CSC 520)
- ❖ Source code
- ❖ Functioning website hosted on weblab server
- ❖ Presentation Documents (From CSC 521)
- ❖ Presentation of the project in powerpoint format

Deliverables

- ❖ Comprehensive report of the project, including but not limited to the following:
 - List of any areas of the proposal (if any) that were not completed, including reasons why
 - Project *Post Mortem*
 - Project Journal
 - Documentation of website functionality
 - All amendments to the original proposal approved by the project advisor

Collaboration/Team Roles

David: Creating the secure login system and writing the project documentation.

Matt: Fetching, storing and displaying Bitcoin exchange data and news in the database. He will be implementing the database search function as well.

Will: Responsible for producing the UML diagrams for implementation. He will also be responsible for graphs and designing the desktop and mobile layouts of the website.

Grading Scheme

15% Functioning Website

15% Secure Login

15% Desktop and Mobile user friendly design

15% Source code quality and appropriate comments

15% Documentation

15% Presentation

10% Project report and other supporting items included in report

Thank You!

Any Questions?