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| **Java III Application Programming**  **Project Status and Design Report**   |  |  |  | | --- | --- | --- | | **Topic:** | *CLC Milestone 5: Add REST support* | | | **Date:** | *3/24/19* | | | **Revision:** | *4.0-5.0* | | | **Team:** | 1. *Zack Chambers* | | | 1. *Chad Weirick* | | | 1. *Tyson Cruz* | | | **Weekly Team Status Summary:** | |  |  |  |  | | --- | --- | --- | --- | | **User Story** | **Team**  **Member** | **Hours**  **Worked** | **Hours Remaining** | | *Met and contributed revision 0.75* | *Zack Chamber* | *28* |  | | *Met and contributed initial 0.75* | *Chad Weirick* | *36* |  | | *Met and contributed revision 0.50* | *Tyson Cruz* | *20* |  | | | | **GIT URL:** | *https://github.com/zchambers3/CST235/tree/master/CLC* | | | **Peer Review:** | *Y* | We acknowledge that our team has reviewed this Report and we agree to the approach we are all taking. |   **Design Documentation**  **General Technical Approach:**  *In our meeting this week we discussed the wide array of db’s that are accessible to developers. Zack, decided to go with MySQL/phpMyAdmin, while Chad and Tyson are in the midst of figuring out JavaDB. Tyson and Zack have been working diligently on updating and linking CSS. Tyson was able to update and link CSS to individual assignment but was unsuccessful updating and linking it to CLC.*  *We also decided that each week we want to switch up who is major on which technology so we both get ample experience in the hot seat for each type of tech used.*  *We are still in agreeance to be a week ahead within 2 weeks’ time, so we can begin adding more additional polish. Over the past few weeks we have found that it has been difficult to get ahead in 2 weeks due to unforeseen life hurdles occurring. However, we continue to engage in open communication through Google Hangouts. Again, our goal as GCU students is employment in the sector so we want to not just meet minimum standards, we want to get more out of this class via this project.*  **Key Technical Design Decisions:**  *We have decided to opt for a simple e-commerce site which allows:*   1. *Multiple items that can be added/modified/removed from an admin module.* 2. *User carts that can be added to/deleted.* 3. *Database (MySQL and/or JavaDB)*   **Known Issues:**   1. *Some members receive an error message after submitting information through form.* 2. *Adding CSS to implement a more cohesive and appealing design has been difficult. We were able to create a CSS file but have difficulty linking the external CSS file to the XHTML files.* 3. *Many of us were unable to establish a true connection with our db’s. However, we were able to iron out and complete the code relating to milestone 4.*   **Main Application Module:**  *Our current goal is to have a page that resembles the below screenshots.*        **Registration Module:**  *Null values*    *Incorrect format*    *Successful registration*    *Successful login*      *Add New Site*    *Add New Site Response*    **Demo of the JSON ?get response:**    **Risks:**  *We mitigate our risks by starting with a small goal. We can always add to it later as we intend to be ahead of pace within 2 weeks’ time by an additional week.*   |  |  |  |  | | --- | --- | --- | --- | | *Risk* | *Details* | *Strategy for Risk*  ***Avoidance*** | *Strategy for* ***Mitigation*** | | *Ambitious design and pace to be ahead in 2 weeks times by 1 week.* | *Our goal is to work ahead on the CLC project to be ahead of pace within 2 weeks by an additional week.* | *Study required elements in the project needed to finish the course and adapt new tools we can add along the way to go above and beyond.* | *Work ahead when free time is allotted, keep weekend open for homework, communicate daily with use of Discord and Google hangout.* | | Not sure how to accomplish a specific coding task. | Questions to professor don’t get answered immediately. No response after 10:00 p.m. | Plan on finishing work one day before the deadline.  Get explanations from online documentation and tutorials. | Submit questions with fully documented problems: copy of source code and run-time results – errors or unexpected output. | | Computer failure | Lose data, code corrupted, hardware failure, computer too slow for required applications (JBOSS) | Backup code / project daily through GitHub. | Backup code daily to GitHub repository. |   **ER Diagram:**  **Flow Diagram for Persistence**    **Flow Diagram for JavaBeans API**    **DDL Scripts:**  [*https://github.com/zchambers3/CST235*](https://github.com/zchambers3/CST235)  **Sitemap Diagram:** Diagram below represents our goals of what we hope our site will resemble once complete.  **User Interface Diagrams:**    **Class Diagrams:**    **Service API Design:**  We are looking to implement something like the below diagram. Depending on how well we grasp the concepts we might alter as we see fit.    **Security Design:**  *In a practical deployment an SSL would be useful, but in our case, we will forgo and rely exclusively upon PBKDF2.*  **Other Documentation:**  *At this stage we have no further documentation.* |