**Green Thumb Lawn Service Project Analysis**

**GitHub**

The link to Green Thumb Lawn Service Repository: (Please refer to GTLSS version 2)

<https://github.com/green-thumbs>

**Executive Summary**

The agile cloud-based Green Thumb Lawn Service (GTLSS) package has moved to Phase II in the development life cycle with the completion of Phase I, the user interface site map. Phase II deliverables consisted of functionality, DBMS creation with input values, and the addition of images and text into site pages. Functionality development is moving quickly with the “add to cart” button added to the Services and Product page along with a table structure to retrieve and display values from the DBMS. The Cart page has functionality through the “up to date”, “clear table”, “continue shopping”, and “proceed to checkout” buttons which moves user input through site pages of Checkout, Confirmation, and Services and Products. Functionality development for the Contact page includes a form for user input which will direct email to the business. As development of functionality and database wraps up, team members have begun to add text and images to the Landscaping Tips and About Us pages. Over the last week, the team experienced serious difficulties with connectivity between Glassfish Server, MySQL server, and NetBeans IDE (8.2). The team had to perform extensive troubleshooting that involved adding the appropriate libraries and drivers, setting class path, adding resource reference to the web.xml deployment descriptor, experimenting with different locations in file system, making changes to driver properties, and restarting the server. As the week progressed, resolution to connectivity issues was found allowing for querying of the database and primarily testing of the database to occur. Our team is maintaining the rigorous schedule with positive attitude moving into week 3 of development. The following team members have contributed to this week’s Phase II development stage:

* **Michelle Trimpin**- Development and functionality of the About Us and Contact page in HTML/CSS/JavaScript/JSP. Developed logo for the Green Thumb Lawn Service e-commerce website. Provided some product images, and support for connectivity issues. Developed my own instance of the database to execute the functionality of the code. Performed test on the DBMS.
* **Juhi Sattar**- Development of functionality for the Cart, Confirmation, and Checkout pages by adding “add to cart”, “clear table”, “continue shopping”, “proceed to checkout” and “submit button” to progress user input through the site pages. Developed functionality on the Index page for images to be linked to the Services and Products page for user access. Developed final layout for confirmation and checkout pages. Provided the solution for connectivity issues with NetBeans, MySQL, and Glassfish Server. Performed test on the DBMS.
* **Kristina Woolman**- Development of functionality for the Services and Products page by adding “purchase” button and creating a table for the retrieval and display of data from the DBMS. Developed the DBMS for the Green Thumb Lawn Service e-commerce website and populated tables. Provided product images. Performed test on the DBMS. Developed out the Landscaping Tips page with content and images. Provided support for finding the solution for connectivity issues with NetBeans, MySQL, and Glassfish Server.

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| Project Change Log for GTLSS | | | | |
| ID | Change Description | Document Changed | Date Revision | Comments |
| 001-P | Change of number of Site Pages | Project Plan | 04/15/2019 | Consolidated Services and Landscaping supplies pages into one new Services and Products page. |
| 002-P | Change of number of Services and Products offered | Project Plan | 04/15/2019 | Reduced offered items for Services and Products. |
| 003-P | Renaming of Checkout page | Project Plan | 04/15/2019 | Changed name of Checkout page to Cart page. |
| 004-P | Removal of Team Member | Project Plan | 04/15/2019 | Removed Paul Davison from: Internal Organizational chart on page 10,  Table 1: Matrix of work roles and Responsibilities on pages 11-12, and  5.1 Development Schedule and work allocation spreadsheet on page 13. |
| 005-P | Addition of tools and methods to 6.2 Methods, tools, and Techniques on pages 15-16 | Project Plan | 04/15/2019 | Added more tools and methods:   * Servlet and Java Server Pages (JSP) Technologies * Enterprise JavaBeans (EJB) Technology * Java Persistence API (JPA) * Java Server Pages Standard library (JTSL) * Java Database connectivity (JDBC) |
| 006-P | Change of diagram for Site Plan | Project Plan | 04/15/2019 | Addendum C: Site Plan - Converted Services page and Landscaping Supplies page to Services and Product page; renamed Checkout page to Cart page. (page 18) |
| 007-P | Removal of the Admin Login page | Project Plan | 04/25/2019 | Removed Admin Login from Project Scope, Deliverables, Required Features, Required Functions, and Project Timeline, and Addendum C. |
| 008-P | Addition of Admin Login to Out-scope Functionality | Project Plan | 04/25/2019 | Added Admin Login to Out-Scope Functionality section 1.3.3. |
| 009-P | Removal of Calendar Scheduling feature | Project Plan | 04/25/2019 | Removed Calendar Scheduling feature from Project Scope, Deliverables, Required Features, Required Functions, Project Timeline, Database deliverable, and Addendum A and C. |
| 010-P | Addition of Calendar Scheduling to Out-Scope Functionality | Project Plan | 04/25/2019 | Added Calendar feature to Out-Scope Functionality section 1.3.3. |
| 011-P | Addition of Cart and Confirmation pages | Project Plan | 04/25/2019 | Added Cart and Confirmation pages to Project Deliverables. Added Cart to Addendum A. |
| 012-P | Removal of DBMS Entities | Project Plan | 04/25/2019 | Removed from DBMS the following Entities: calendar management, services, employees, equipment, customer accounts, customer billing, ProdOrderDetails, ServOrderDetails, and inventory management. Removed from Addendum B and C. |
| 013-P | Addition of DBMS Entities | Project Plan | 04/25/2019 | Added to the DBMS the following Entities: product, category, customer\_order, ordered\_product, and customer. Added to Addendum B and C. |
| 001-T | Removal of Inventory Data | Project Test Plan | 04/15/2019 | Reduced Inventory data by only offering 3 kinds of services by size and nine products. |
| 002-T | Removal of Test Cases | Project Test Plan | 04/15/2019 | Removed test cases for product pages has the page merged with the service page creating a new Service and Products page. Test Cases: 4.1.9 and 4.1.11. |
| 003-T | Removal of site page Landscaping supplies page | Project Test Plan | 04/15/2019 | Changed any references to Landscaping supplies page to Service and Products page in the test cases. Test cases: 4.1.2,4.1.3,4.1.4,4.1.5,4.1.14,4.1.15. |
| 004-T | Removal of Data input for testing | Project Test Plan | 04/25/2019 | Removed data input for calendar, employee, and equipment (pages 7-8). |
| 005-T | Removal of Test Cases | Project test Plan | 04/25/2019 | Removed test cases related to the Admin login and portal (out-of -scope). Test cases: 4.1.12, 4.1.13 |
| 006-T | Removal of Test Cases | Project Test Plan | 04/25/2019 | Removed test cases related to the Calendar Scheduling feature (out-of-scope). Test cases: 4.1.21, 4.1.22, 4.2.6, 4.2.7. |
| 007-T | Change of DB tables | Project Test Plan | 04/25/2019 | Changed Product Order Details to Ordered\_Product and removed Service Order Details (Test case: 4.3.5). Consolidated Customer Billing table with Customer table (Test case: 4.3.7). Consolidated Services table with Product table (Test cases: 4.3.1, 4.3.2, 4.3.3, 4.3.4). Added Category table (Test case: 4.3.1). Removed employees and equipment tables (Test cases: 4.3.1, 4.3.2, 4.3.3, 4.3.4). |
| 008-T | Change of diagrams to represent the alternate project design after scope reduction | Project Test Plan | 04/25/2019 | Changed ACD-User  Changed ACD-Services  Changed the ACD-Services |
| 001-U | Removal of Admin User section | User Guide | 4/25/2019 | Removed the entire Admin User (management of the business-related database) section on pages 4-13. |
| 002-U | Change of number of Site Pages | User Guide | 4/25/2019 | Consolidated Services and Landscaping supplies pages into one new Services and Products page on all mockups (pages 4-11). |
| 003-U | Removal of site page Landscaping supplies page | User Guide | 4/25/2019 | Changed any references to Landscaping supplies page to Service and Products page in the use cases (pages 4 and 8). |
| 004-U | Removal of the use case | User Guide | 4/25/2019 | Removed the use case for Services Page (on page 9), have the Services page merged with the Products page creating a use case for Service and Products page. |
| 005-U | Addition of Cart and Confirmation pages | User Guide | 4/25/2019 | Split the checkout process use case in stages by adding Cart and Confirmation pages on the mockups. |
| 006-U | Removal of Calendar Scheduling | User Guide | 4/25/2019 | Removed the calendar (scheduling of services) from the checkout process use case. Appropriate adjustments were made to the description of the checkout process and corresponding mockups (pages 10-11). |
| 001-D | Change of DB tables | Project Design Plan | 04/27/2019 | Changed Product Order Details to Ordered\_Product and removed Service Order Details. Consolidated Customer Billing table with Customer table. Consolidated Services table with Product table. Added Category table. Removed employees and equipment tables. |
| 002-D | Removal of Calendar Scheduling feature | Project Design Plan | 04/27/2019 | Removed any reference to Calendar Scheduling feature. |
| 003-D | Removal of the Admin Login and Admin Portal pages | Project Design Plan | 04/27/2019 | Removed any reference to Admin Login and Admin portal. |
| 004-D | Change of diagrams | Project Design Plan | 04/27/2019 | Changed the following diagrams:   * ERD, * High Level ACD, * ACD-User Interface, * ACD-Services, * ACD-Domain Objects, * Data Flow Diagram, * Inter-module Dependency Diagram, * Inter-process Dependency Diagram, * User Interface workflow and pages mockups.   Changes included:   * Removed calendar, calendar lookup, admin login, all domain objects. * Added product, category, order\_product, customer\_order, and customer domain objects. |
| 005-D | Additional tools and methods added to 6. Techniques on page 24 | Project Design Plan | 04/15/2019 | Added more tools and methods:   * Integrated Development Environment - NetBeans IDE 8.2 All bundle * Language – HTML/CSS/JavaScript/SQL/Java * Platform – JDK 8.0 or newer * Internet connection (LAN, Wi-Fi). * Third-party web browser (Firefox, Chrome, Edge) |