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| Team Echo  Testing Summary Report |
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# Peer marking

See Testing Project instructions.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student number | Student email | Student name | Section(s) Tested | Peer mark (whole numbers only) |
| 40020024 | jferguson28@qub.ac.uk | Jack Ferguson | Order Pizza  Contact | 5 |
| 15481042 | kohare08@qub.ac.uk | Kevin O’Hare | Order Pizza  About  Contact | 5 |
| 40058483 | ahale03@qub.ac.uk | Adam Hale | Receipt  Order Pizza | 5 |
| 40141620 | awhitten02@qub.ac.uk | Alan Whitten | Order Pizza  Home  Login | 5 |
| 40138365 | cmcclune02@qub.ac.uk | Chris McClune | Manage Account – reset Password  Login | 5 |
| 40059090 | jleathem03@qub.ac.uk | Jonathan Leathem | Forgot Password  Contact | 5 |
| 40047330 | cmcaleavey02@qub.ac.uk | Conor McAleavey | Registration | 5 |
| 40025827 | skennedy2001@qub.ac.uk | Steven Kennedy | Schedule  Login | 5 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Section** | **Test cases** | **Total Defects** | **Automated** | **Critical** | **Major** | **Moderate** | **Minor** | **Cosmetic** | **% Automated** | **% Total TCs** |
| *Home* | 28 | 4 | 11 | 0 | 0 | 0 | 2 | 2 | 39.29 | 6.45 |
| *Registration* | 27 | 3 | 20 | 0 | 1 | 2 | 0 | 0 | 74.07 | 6.22 |
| *Login* | 24 | 2 | 12 | 0 | 0 | 2 | 0 | 0 | 50.00 | 5.53 |
| *About* | 19 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0.00 | 4.38 |
| *Contact* | 36 | 11 | 0 | 0 | 1 | 0 | 6 | 4 | 0.00 | 8.29 |
| *Order Pizza* | 169 | 82 | 142 | 7 | 43 | 19 | 4 | 9 | 84.02 | 38.94 |
| *Forgot Password* | 21 | 4 | 4 | 0 | 0 | 0 | 1 | 3 | 19.05 | 4.84 |
| *Schedule* | 42 | 12 | 6 | 4 | 7 | 1 | 0 | 0 | 14.29 | 9.68 |
| *Receipt* | 31 | 7 | 18 | 0 | 0 | 5 | 1 | 1 | 58.06 | 7.14 |
| *Reset password* | 37 | 17 | 10 | 0 | 0 | 13 | 1 | 3 | 27.03 | 8.53 |
| **Totals** | **434** | **144** | **223** | **11** | **52** | **42** | **15** | **24** | 51.38 | 100.00 |

# Key metrics

# Key Metric Chart

## Chart 1 -Test cases and defects per section

## Chart 2 - Defects by Section with Severity

## Chart 3 - Defect clusters

**Chart 3 – Defect Clusters**

# Summary of *all* critical defects found

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Summary description of defect | Section | Impact assessment | Suspected cause | Requirement(s) / Exploratory |
| IE will not allow removal of Classic Deluxe pizza | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.25 |
| IE will not allow removal of Cheese Pizza | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.25 |
| IE will not allow removal of Meat Extravaganza pizza | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.25 |
| When using IE cannot remove any pizzas from the shopping cart when there are 10 pizzas present | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.28  4.1.29 |
| When using IE cannot remove any pizzas from the shopping cart when there are 20 pizzas present | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.28  4.1.29 |
| When using IE cannot remove any pizzas from the shopping cart when there are 100 pizzas present | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.28  4.1.29 |
| When using IE cannot remove any pizza with toppings from the shopping cart | Ordering Pizza page | User will not be able to remove the pizza from the shopping cart. | Possible defect with remove button when using IE version 11 | 4.1.28  4.1.29 |
| When entering a date outside valid range (few days after valid week) confirm button still functioned | Order Schedule page | User can confirm an invalid date | Validation code around the confirmation button | 4.1.32 |
| When entering a date outside valid range (a month after valid week) the confirm button still functions | Order Schedule page | User can confirm an invalid date | Validation code around the confirmation button | 4.1.32 |
| Validation message did not appear when outside valid date range | Order Schedule page | User does not know they have selected an invalid date | Validation message not created or implemented correctly | 4.1.32 |
| Validation concerning the 45minute time window does not work | Order Schedule page | Incorrect ordering information is passed on to the user | 45minute validation may not have been applied or implemented correctly | 4.1.32 |

# Evaluation of Product Readiness (max 200 words)

From the evaluation of the website and the requirements specification a number of critical defects exist, that when resolved the website should be nearly ready for release. The critical defects that we feel need attention before release can be seen in the table in Section 4. Once the issue relating to Internet Explorer is resolved and re-tested it may consequently remove several critical defects connected to the remove pizza function of Internet Explorer. Similarly fixing the issue with the price of the Meat Extravaganza pizza and the Peppers topping option, likely may dispel any defects relating to any combination including these values. It is recommended that the validation surrounding the ‘later’ service be corrected as it will result in customers’ orders being lost and undermines the intention of the website. The critical defects that we have demonstrated severely hinder the expected operation of the ordering system and once corrected we feel will rectify other major/moderate defects that are linked. Other minor and cosmetic defects do not affect the running of the website and can be fixed at your discretion in order to improve the aesthetics of the website.

# Evaluation of the Testing Process (max 300 words)

As a group we collated a list of communal tests that applied to each webpage within the system. This was beneficial in making sure each member of the team had a framework to which to work from. In addition to this it was the responsibility of each team member to create tests for their individual webpages. Certain webpages were more complex than others and work was divided appropriately, specifically amongst members managing relatively less demanding pages.

Topping options for each pizza were tested exhaustively with the use of a decision table covering all permutations of binary decisions concerning each and every topping available, 16 in total 2^4. The benefit of this is that it allowed us to achieve 100% decision coverage and therefore 100% statement coverage regarding toppings.

Requirements based testing helped us to focus the direction of testing in order to fulfil the customer’s explicit needs. Explorative testing proved advantageous because it helped to illuminate unforeseen issues and improve the scope of testing the system. In this regard explorative testing complements requirements based testing, providing a fuller picture of the condition of the website.

To enhance the testing process we feel that when testing those requirements that applied to all pages, we could have been more organised in that more communication would have benefitted us surrounding the classification of those requirements. This would have resulted in saving us time reclassifying them again after coming back as a group and would be the major lesson learnt.

Overall we were pleased with how the testing process was conducted. All members of the team were able to communicate, in group sessions. Through the use of resources, GitHub software and the booking of group rooms as well as staying in constant communication, either face-to-face or online the team have shown initiative.