Logo

Description automatically generated

**SQA Phase 2**

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**Edit profile test cases:**

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| ID | UC\_Edit\_Profile\_01 |
| Description | This allows the user to change/edit their personal information to another different Gender, Birth Date, Nationality, Country, City, Visa Status, Number of Dependents, Marital Status. |
| Pre-condition | * The user must be logged in to his account. * The user must be on his own profile (not another user profile). |
| Main path | 1. The user clicks on the word “profile” on the navigation bar and clicks on “Edit profile” in the drop-down menu of the profile. 2. The user scrolls down to the section “Personal Info”. 3. The user clicks on “Edit” on the right corner of the “Personal Info” section. 4. The user chooses the Gender “Male” from the drop-down menu of “Gender”. 5. The user chooses the Nationality “Egypt” from the drop-down menu of “Nationality”. 6. The user chooses the Birth Date; 16 , 4, 1999 from 3 drop-down lists under the word “Birth Date” . 7. The user chooses the Country “Egypt” from the drop-down menu of “Country”. 8. The user chooses the City “Cairo” from the drop-down menu of “City”. 9. The user chooses the Visa status “No visa” from the drop-down menu of “Visa status”. 10. The user chooses “0-” from the drop-down menu of “Number of dependents”. 11. The user chooses the marital status “Single” from the drop-down menu of “Marital status”. |
| Alternative path | 1a. The user clicks on the user icon on the top right corner and clicks on “Edit profile” below the profile picture.  1b. The user clicks on the word “Profile” from the “Profile” drop-down menu and clicks on “Edit profile” below the profile picture.  1c. The user clicks on the down arrow on the top right corner beside the user icon and clicks on “Edit profile”. |
| Post-condition | * The Personal Info of the user profile will be updated (Gender: Male, Birth Date: 1999-04-16, Nationality: Egypt, Country: Egypt, Visa Status: No visa, Number of Dependents: 0-, Marital Status: Single). |

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| ID | UC\_Edit\_Profile\_02 |
| Description | This allows the user to add a new work experience with Title, Company Name, Company Industry, Location, Job Role, Time period from: valid date, time period to: valid date, Description. |
| Pre-condition | * The user must be logged in to his account. * The user must be on his own profile (not another user profile). |
| Main path | 1. The user clicks on the word “profile” on the navigation bar and clicks on “Edit profile” in the drop-down menu of the profile. 2. The user scrolls down to the section “Experiences”. 3. The user clicks on “Add New” on the right corner of the “Experiences” section. 4. The user types “Senior Software Engineer” in the text field “Title”. 5. The user types “Google” in the text field “Company Name”. 6. The user chooses “Computer Software” from the drop-down list “Company Industry” 7. The user types “Maadi” in the text field “Location”. 8. The user chooses “Technical” from the drop-down list “Job Role / Function” 9. The user chooses “5” from the Month drop-down menu under “time period from” 10. The user chooses “2017” from the Year drop-down menu under “time period from” 11. The user chooses “7” from the Month drop-down menu under “time period to” 12. The user chooses “2020” from the Month drop-down menu under “time period to” 13. The user types “Responsible for the integration of the software units”. 14. The user clicks save. |
| Alternative path | 1a. The user clicks on the user icon on the top right corner and clicks on “Edit profile” below the profile picture.  1b. The user clicks on the word “Profile” from the “Profile” drop-down menu and clicks on “Edit profile” below the profile picture.  1c. The user clicks on the down arrow on the top right corner beside the user icon and clicks on “Edit profile”. |
| Post-condition | * A new experience will be added to the list of experiences in the user profile with the following data: (“Senior Software Engineer”, “Google”, “Computer Software”, “Maadi”, “May 2017 – July 2020 ( 3 Years - 2 Months )”, “Technical”, “Responsible for the integration of the software units”). |

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| ID | UC\_Edit\_Profile\_03 |
| Description | This allows the user to edit existing work experience on the user profile to be with a different Title, Location, Job Description. |
| Pre-condition | * The user must be logged in to his account. * The user must be on his own profile (not another user profile). * There must be at least one existing work experience. |
| Main path | 1. The user clicks on the word “profile” on the navigation bar and clicks on “Edit profile” in the drop-down menu of the profile. 2. The user scrolls down to the section “Experiences”. 3. The user clicks on “Edit” on the right corner of the “Experiences” section. 4. The user types “Team Leader Software Engineer” in the text field “Title”. 5. The user types “Nasr City” in the text field “Location”. 6. The user types “Responsible for writing the test plan”. 7. The user clicks save. |
| Alternative path | 1a. The user clicks on the user icon on the top right corner and clicks on “Edit profile” below the profile picture.  1b. The user clicks on the word “Profile” from the “Profile” drop-down menu and clicks on “Edit profile” below the profile picture.  1c. The user clicks on the down arrow on the top right corner beside the user icon and clicks on “Edit profile”. |
| Post-condition | * The previous experience will be updated in the list of experiences of the user profile with the following data (“Team Leader Software Engineer”, “Nasr City”, “Responsible for writing the test plan”). |

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| ID | UC\_Edit\_Profile\_04 |
| Description | This allows the user to delete an existing work experience with a specific title from the user profile. |
| Pre-condition | * The user must be logged in to his account. * The user must be on his own profile (not another user profile). * There must be at least one existing work experience. |
| Main path | 1. The user clicks on the word “profile” on the navigation bar and clicks on “Edit profile” in the drop-down menu of the profile. 2. The user scrolls down to the section “Experiences”. 3. The user clicks on “Delete” on the right corner of the Title “Team Leader Software Engineer” under the “Experiences” section. 4. The user clicks “Delete” in the prompt shown to them to confirm the deletion. |
| Alternative path | 1a. The user clicks on the user icon on the top right corner and clicks on “Edit profile” below the profile picture.  1b. The user clicks on the word “Profile” from the “Profile” drop-down menu and clicks on “Edit profile” below the profile picture.  1c. The user clicks on the down arrow on the top right corner beside the user icon and clicks on “Edit profile”. |
| Post-condition | * The work experience with Title “ Team Leader Software Engineer” is no longer found under the experiences section. |

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| ID | UC\_Edit\_Profile\_05 |
| Description | The addition of a new work experience with Time period from recent date to Time period to: past date will not be completed successfully. |
| Pre-condition | * The user must be logged in to his account. * The user must be on his own profile (not another user profile). |
| Main path | 1. The user clicks on the word “profile” on the navigation bar and clicks on “Edit profile” in the drop-down menu of the profile. 2. The user scrolls down to the section “Experiences”. 3. The user clicks on “Add New” on the right corner of the “Experiences” section. 4. The user types “Junior Software Engineer” in the text field “Title”. 5. The user types “Override” in the text field “Company Name”. 6. The user chooses “Computer Software” from the drop-down list “Company Industry” 7. The user types “fifth settlement” in the text field “Location”. 8. The user chooses “Technical” from the drop-down list “Job Role / Function” 9. The user chooses “6” from the Month drop-down menu under “time period from” 10. The user chooses “2016” from the Year drop-down menu under “time period from” 11. The user leaves the “Current job” box unchecked. 12. The user chooses “4” from the Month drop-down menu under “time period to” 13. The user chooses “2015” from the Month drop-down menu under “time period to” 14. The user types “Under training”. 15. The user clicks save. |
| Alternative path | 1a. The user clicks on the user icon on the top right corner and clicks on “Edit profile” below the profile picture.  1b. The user clicks on the word “Profile” from the “Profile” drop-down menu and clicks on “Edit profile” below the profile picture.  1c. The user clicks on the down arrow on the top right corner beside the user icon and clicks on “Edit profile”. |
| Post-condition | * The new work experience will not be added and the message “Please enter a valid value” will be shown next to all the date fields. |

**Message test cases**

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| ID | UC\_Message\_Send\_06 |
| Description | This allows the user to send a message with a subject and a content to another user. |
| Pre-condition | * The user must be logged in to his account. * The user must be connected with/following the other user “Youssef Abdulaziz” |
| Main path | 1. The user clicks on the message icon in the top right corner of the page. 2. The user clicks on “New Message”. 3. The user fills the “Send Message” form. 4. In the text field “To”, the user types “Youssef Abdulaziz”. 5. In the text field “Subject” the user types “Very Important”. 6. In the text field “Message” the user types “I want to meet you at the office on Thursday”. 7. The user clicks on the “Send” button. |
| Alternative path | 2a. The user clicks on “See all messages” and then clicks on “New Message” on the top left of the new opened page. |
| Post-condition | * A message appears saying “Your message was successfully sent”. * The sent message in the “Sent” section of the messaging along with the name “Youssef Abdulaziz”, the subject “Very important” and message “I want to meet you at the office on Thursday”. |

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| ID | UC\_Message\_Delete\_07 |
| Description | This allows the user to delete a message with a specific subject that they sent to another user. |
| Pre-condition | * The user must be logged in to his account. * There must exist a message sent to “Ahmed Koriam” with the subject “Testing Delete functionality” in the trash section. |
| Main path | 1. The user clicks on the message icon in the top right corner of the page. 2. The user clicks on “See all messages”. 3. The user clicks on the section “Sent” to view sent messages. 4. The user clicks on the trash icon under the message sent to “Ahmed Koriam” under the subject “Testing Delete functionality”. 5. The user clicks “Ok” on the prompt saying “Are you sure you want to delete this message?”. |
| Alternative path | 2a. The user clicks on “New message”. |
| Post-condition | * A message appears saying “Message removed successfully”. * The message with subject “Testing Delete functionality” sent to “Ahmed Koriam” will be deleted and will no longer appear in the sent section. * The deleted message will be transferred to the “trash” section on the left. |

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| ID | UC\_Message\_Restore\_08 |
| Description | This allows the user to restore the message sent they sent to another user from the trash section with a specific subject after deleting it from the “sent” section. |
| Pre-condition | * The user must be logged in to his account. * The user/sender must be connected with/following the other user “Ahmed Koriam”. * There must exist a message sent to “Ahmed Koriam”. |
| Main path | 1. The user clicks on the message icon in the top right corner of the page. 2. The user clicks on “See all messages”. 3. The user clicks on the section “trash” on the left to view the deleted messages. 4. The user clicks on the restore icon under the message sent to “Ahmed Koriam” with the subject “Testing Delete functionality”. 5. The user clicks “Ok” on the prompt saying: “Are you sure you want to restore this message?”. |
| Alternative path | 2a. The user clicks on “New message”. |
| Post-condition | * A message appears saying “Message restored successfully”. * The message sent to “Ahmed Koriam” with the subject “Testing Delete functionality” is back to the “sent” section. |

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| ID | UC\_Message\_NotSent\_09 |
| Description | A message will not be sent if the user is not connected with/ following the user “Omar ElGedawy”. |
| Pre-condition | * The user must be logged in to his account. * The user/sender must not be the user “Omar ElGedawy”. * No other message in the “Sent” section of the sender should have the subject “Hello message”. * The user/sender must not be connected with/following the other user “Omar ElGedawy”. |
| Main path | 1. The user clicks on the message icon in the top right corner of the page. 2. The user clicks on “New Message”. 3. The user fills the “Send Message” form. 4. In the text field “To”, the user types “Omar ElGedawy”. 5. In the text field “Subject” the user types “Hello message”. 6. In the text field “Message” the user types “This message will not be sent”. 7. The user clicks on the “Send” button. |
| Alternative path | 2a. The user clicks on “See all messages” and then clicks on “New Message” on the top left of the new opened page. |
| Post-condition | * In the text field “To”, the name “Omar ElGedawy” will disappear as long as the cursor moves to the any other text field. * The message will not appear in the “Sent” section of the sender. |

**Apply to / unapply from job test cases**

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| ID | UC \_Apply\_10 |
| Description | The user can apply to the job position offered by a hiring company. |
| Pre-condition | * The user must be logged in to his account. * The user must not already be an applicant to the “Maintenance engineer” job offered by “LEC Egypt. * The user must have searched for “Maintenance engineer” using the “search by job” filter. |
| Main path | 1. The user types “Maintenance Engineer” in the search bar and chooses the “Jobs” filter. 2. The user clicks on the wanted job in the search results. 3. The user clicks on the Green “Apply to job” button. 4. The user clicks the edit button beside the “Mobile Phone” text field, fills in his mobile phone number “01147108923” and clicks save. 5. The user clicks the edit button beside the “email” text field, fills in his email address “omaratefkamal@hotmail.com” and clicks save. 6. The user clicks the edit button beside the “address” text field, enters his residential address “Egypt – Cairo” and clicks save. 7. The user uploads his CV by clicking on “Upload Your CV” button. 8. The user leaves both “Follow company” and “appreciate company” boxes checked. 9. The user clicks on the “Apply” button. |
| Alternative path | 1a. The user types “LEC” in the search bar and chooses the “Companies” filter.  2a. The user clicks on the wanted company and clicks on the “Careers” tab and clicks on the wanted job “maintenance engineer”. |
| Post-condition | * The green “Apply” button changes to “Already applied”. * The job with Title “Maintenance Engineer” offered by “LEC Egypt” is now in “My Jobs” section of the user account. |

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| ID | UC \_Unapply\_11 |
| Description | The user can unapply from a job position they have applied to after they no longer find it interesting. |
| Pre-condition | * The user must be logged in to his account. * The user must already be an applicant to the “Maintenance engineer” job offered by “LEC Egypt. |
| Main path | 1. The user clicks on the workspace drop-down menu in the navigation bar. 2. The user clicks on “My Jobs”. 3. The user clicks the word “unapply” on the bottom right of the targeted job. 4. The user clicks the “unapply” button of the prompt that shows saying: “Are you sure you want to unapply?”. |
| Alternative path | None |
| Post-condition | * A green pop-up message saying: “You have been successfully unapplied from this job” appears. * The job with Title “Maintenance Engineer” offered by “LEC Egypt” is no longer in “My Jobs” section of the user account. |

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| ID | UC \_Apply\_Fail\_12 |
| Description | The user can apply from a job position with entering irrelevant data. |
| Pre-condition | * The user must be logged in to his account. * The user must not already be an applicant to the “Maintenance engineer” job offered by “LEC Egypt. |
| Main path | 1. The user types “Maintenance Engineer” in the search bar and chooses the “Jobs” filter. 2. The user clicks on the wanted job in the search results. 3. The user clicks on the Green “Apply to job” button. 4. The user clicks the edit button beside the “Mobile Phone” text field, fills in his mobile phone number with text “someone” and clicks save. 5. The user clicks the edit button beside the “email” text field, fills in his email address with number “3344” and clicks save. 6. The user clicks the edit button beside the “address” text field, enters the number “1234” and clicks save. 7. The user clicks on “Upload Your CV” button and chooses a .png file extension. 8. The user leaves both “Follow company” and “appreciate company” boxes checked. 9. The user clicks on the “Apply” button. 10. The user clicks on the “Apply button again. |
| Alternative path | 1a. The user types “LEC” in the search bar and chooses the “Companies” filter.  2a. The user clicks on the wanted company and clicks on the “Careers” tab and clicks on the wanted job “maintenance engineer”. |
| Post-condition | * A red pop-up error message saying: “The file type only (pdf.doc.docx.xls.xlsx)” appears. * The company is now appreciated by the user.   Expected:   * The application is not submitted successfully.   Actual:   * The user is now applied to the job with garbage data. |

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| ID | UC\_Search \_13 |
| Description | The user can search for a specific existing company. |
| Pre-condition | * The user must be logged in to his account. * The company “Awlad Ragab” must already have a company profile. |
| Main path | 1. The user clicks on the search bar at the top of the page. 2. The user types “Awlad Ragab” in the search bar and chooses the “Companies” filter. 3. The user clicks on the button “Exact phrase”. 4. The user selects “Egypt” from the -Select Country- drop-down menu. 5. The user selects “Cairo” from the -Select City- drop-down menu. |
| Alternative path | 1a. The user clicks on “Search Companies” in the footer.  2a. The user types “Awlad Ragab” in the keyword text field. |
| Post-condition | * There exists one search result which is the “Awlad Ragab” company profile along with the text “1 Companies Found”. |

* **Test Plan**
  + **Test Plan Identifier**
  + **Introduction**
  + **Software Risk Issues**
  + **Features to be Tested**
  + **Features not to be Tested**
  + **Item Pass/Fail Criteria**
  + **Suspension Criteria**
  + **Test Deliverables**
  + **Schedule**
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**Test Plan Identifier:** Test plan for Jobzella TP\_1.0

**Introduction**

The test plan is created to test for testing components at the unit level. “Jobzella” is a website for job hunting that mainly enables companies to advertise their available job opportunities and hire applicants and enables jobseekers to find job opportunities that match their interest and skill level. The purpose of the testing is to verify that the core functionalities consequences are reflected on screen through verifying that the system does not ignore and responds to newly entered data or requests to modify information or even clicks that activate different functionalities and displays correct, logical, and relevant results. The scope of the testing is mostly concerned with the user side of the job searching website “Jobzella” that involves features that are core to the website and are free to do without a subscription. The features to be tested mostly have several steps and include forms to be filled and must have a visible result or lead to a message after applying/committing changes. The testing plan disregards features that requires payment to do, have limited steps, or have no visible result due to the fact that these features are handled on the server side of the website management/admins and thus, they cannot be verified by a normal user. The testing plan is mainly intended for the project manager tracking the performance of the testing phase and for the SQA testers that carry out the highlighted tasks. The functionalities of the website are: signing up, signing in, searching (search for job, people, company, courses, services), applying for a job, messaging, setting up personal profile and editing it, connecting with other users, applying for a course or service, etc. From the company side the functionalities are: posting a job, create and manage events, etc. The testing process will include both functional and non-functional testing methods and techniques. Regarding functional testing: unit testing, integration testing, system testing, and acceptance testing will be carried out. Regarding non-functional testing: performance testing, security testing, usability testing and compatibility testing will be carried out. More specifically the functional testing will include both white-box testing and black-box testing. For unit testing: JUnit and NUnit testing frameworks will be used. For integration testing: DBUnit framework will be used. For system testing: Selenium IDE and Selenium web driver will be used. For acceptance testing: Watir toolkit will be used. Regarding non-functional testing, for performance testing: WebLOAD load testing tool will be used. For security testing: Zed Attack Proxy (ZAP) and Wireshark will be used. For usability testing: Crazy Egg tool will be used. For compatibility testing: LambdaTest compatibility testing tool will be used.

**Software Risk Issues**

1. The lack of knowledge of the testing team about the chosen testing framework or tool.
2. Executing test cases independently in isolation and ignoring dependencies between them.
3. The testing lead taking few days off due to being sick.
4. The sudden addition of more core functionality by the website.
5. Working in a limited time scale.
6. A part of the implemented functionality being test is discovered to not be in conformation with the original specification.
7. The large amount of functionality to be tested and insufficient computers available for all testers or the damage of some computers.
8. The inability to interpret the description or the expected outcome of the test case.
9. The running of redundant test cases by different team members.

* **Features to be Tested**

1. **Search (includes Sort Search Results):** A user can search with different search filters (By people, companies, jobs, courses, services).

**Priority**: High

1. **Apply to job / Unapply to job:** A user can apply to a job offered by entering their personal information. A user can also unapply to a job that they no longer find interesting.

**Priority**: High

1. **Edit profile settings:** A user can add/delete/modify any information on their profile that represents them (ex: Personal info, Contact info, upload CV, etc.) .

**Priority**: High

1. **Message:** A user can send and receive messages back and forth among other users.

**Priority**: Medium

1. **Create Account (Sign up – Log in):** User can create an account and enter chosen username and password to access their account.

**Priority**: High

1. **Connect / Disconnect:** A user can add someone to their connections to observe their updates and allow easy finding. A user can remove someone from their connections too.

**Priority**: Medium

1. **Respond to connections (Accept – Decline):** A user can accept or decline requests from other users to connect with them.

**Priority**: Medium

1. **Change language:** The user can change the language from English to Arabic and vice versa.

**Priority**: Medium

1. **Save job post / Unsave job post:** A user can save jobs offered they find interesting to a list of saved jobs for easier access later. A user can remove jobs they no longer find interesting from the list of interesting jobs.

**Priority**: Low

1. **Create a post update / Delete Post:** A user can add news to their profile and remove them.

**Priority**: Low

1. **Comment on user profile updates:** A user can add a comment on another user profile updates/posts.

**Priority**: Low

1. **Request recommendation:** A user can request to be given a recommendation to another user that they’re connected with.

**Priority**: Medium

1. **Add/Give recommendation:** A user can give a public recommendation to another user in order to endorser their profile’s credibility.

**Priority**: Medium

1. **Edit account settings:** A user can edit their account settings like email, username, and password.

**Priority**: Low

1. **Create company profile:** A user can create a business profile for their business.

**Priority**: High

1. **Apply to service / Cancel application:** A user can apply to a service in the list of services offered by jobzella.

**Priority**: Low

1. **Post event:** A company can create a new employment event without having to pay.

**Priority**: Low

1. **Manage events:** A company can manage a list of events that it organizes.

**Priority**: Low

1. **Appreciate user profile:** A user can express that they like another user’s profile.

**Priority:** Low

* **Features not to be Tested**
  + **Jobseeker side:**

1. **Report (user or company):** A user can report a profile be it a user profile or a company profile to the website.

**Reason for not testing:** There is no reply or response message from the system after reporting a profile or job.

1. **Apply to course:** A user can apply to a course - offered by another website - listed in the available courses.

**Reason for not testing:** Courses are offered by other different websites and application to courses is handled through each external website.

* + **Hiring Company side:**

1. **Add to cart / Delete from cart:** In order for a hiring company owner to buy packages and be able to offer/add jobs and services, they must add their packages of interest to their cart and checkout to pay. They can also remove packages they chose from their cart.

**Reason for not testing:** Requires payment.

1. **Post job:** After payment, a company owner can add jobs to the site.

**Reason for not testing:** Requires payment.

1. **Manage jobs:** After payment, a company owner can manage the jobs they offered or added.

**Reason for not testing:** Requires payment.

1. **Post course:** After payment, a company owner can add a course that they offer in their company.

**Reason for not testing:** Requires payment.

1. **Manage courses:** After subscription, a company owner can manage the courses they offered.

**Reason for not testing:** Requires payment.

1. **Create search project:** A company can create a search project.

**Reason for not testing:** Requires payment.

1. **Manage search projects:** A company can manage the list of search projects that it created.

**Reason for not testing:** Requires payment.

* **Item Pass/Fail Criteria**
* All test suites including test cases created are executed.
* 75% of the test cases must pass successfully.
* A test case should be tested at least 5 times and must pass successfully each time before being approved.
* 70% of the test cases that deal with icons must pass.
* All test cases related to independent functionality (functionality that does not depend on another functionality except the login functionality) must pass.
* All test cases with 3 or less steps in their main path must pass.
* The path with more steps of any passed test case (the longest path) should always pass.
* Each test suite must include at least 3 test cases.
* Testing must cover at least 70% of the code of the website.
* **Suspension criteria**

1. If any core functionality is not working.
2. If more than 30% of the total functionalities to be tested are not working or lagging (non-core functionalities that do not work/lag and amounting to more than 30% of all the functionalities to be tested).
3. If the testing budget overruns double the expected budget.
4. If the testing manager decides it is enough that most of the functionalities commonly encountered during the usage of the website have been tested.
5. If the testing manager is on a sick leave that will last for more than two weeks.
6. If testers have no experience is the programming language of the required/chosen testing tool.
7. If the website server is down for more than one week.
8. If the website is undergoing maintenance that will take more than 2 weeks or if the development team are modifying any core functionality.
9. If there is a problem with the cables providing the internet service to the building where the testing office is located.
10. If the client wants the testing over in a noticeably short period of time.
11. If the client does not mind the existence of some bugs and errors and wants a reasonably functional website that achieves the overall mission even with some tolerance for errors.

* **Test Deliverables**

1. Test plan document
2. Effort estimation document
3. Test Data
4. Test cases
5. Bug document
6. Test Execution document
7. Test summary report
8. Test incident report

* **Schedule**

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| --- | --- |
| **Deliverable** | **Due Date** |
| Test plan document | 30 May 2021 |
| Effort estimation document | 5 June 2021 |
| Test Data | 8 June 2021 |
| Test cases | 15 June 2021 |
| Bug document | 20 June 2021 |
| Test Execution document | 22 June 2021 |
| Test summary report | 25 June 2021 |
| Test incident report | 28 June 2021 |

* **Planning Risk and Contingencies**

1. Providing intensive training for the used tool or use the testing tool known to the majority of testers involved.
2. Prioritizing the test cases in such a way that the dependencies are executed before other test cases that depend on them and grouping test cases into several test suites each containing a sequence of dependent test cases.
3. Determining a second or vice test lead/manager who knows the same information as the original testing manager.
4. Frequent communication with the stakeholders to be informed if any new functionality is going to be added, in this case, the testing of the functionalities expected to be added/deployed should be postponed to the end rather than testing outdated functionalities.
5. In case the timeline of the project is limited, increase the number of testers and the work hours to be able to deliver on the agreed time.
6. If there is a possibility that a part of implemented functionality does not conform with the software specification, test the most simple functionalities first (those that were unlikely to have been wrongly implemented) and revise the functionalities being tested with both the developers and the customer to ensure their correctness before implementing test cases.
7. The outsourcing of some testing tasks to other small companies.
8. To mitigate the risk of misinterpretation of test cases, impose a minimum number of lines for the elaboration of test case descriptions, and mention more parameters like the position and color of the item to be tested. Moreover, providing screenshots should be helpful.
9. To prevent the running of redundant test cases by different team members, improve the communication among testers by regular meetings in which specific tasks are assigned to each tester.