**Development Plan**

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| **Employee Name** | Nguyen Quoc Huy | **Manager Name** | Le Minh Hoa |
| **Department** | Manager/Developer | **Plan Date** | March 4, 2022 |
| **Job Title** | Programmer | **Date of Last Plan** | April 15, 2022 |

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| **Task Goals** | **Employee Task Goal Details** | |
| **Detail** | **Date to be Achieved By** |
| Design the login page and implement the decentralization for four roles admin, user, QA coordinator, and QA manager | Design the login page to access with different roles with a simple layout consisting of two main components: email and password, user information is stored in a database including name, email, password, and user type. When entering data in the database, and providing account information for login, if the role is admin can access the page to add, edit and delete the user's information, if the role is the user will visit the homepage and can use the features of the website and the last two roles are the QA coordinator to receive emails when the article is posted or the user comments, which will notify the QA coordinator and QA manager will visit the page to edit and delete the category. | March 5, 2202, By Huy |
| Implement comment function, reply comment, and view replies | On the comment page, the user will comment on the article, then the system will display a message to the user that the comment is successful after commenting on the post, in addition, the user can also reply to any comment. Besides, after replying to a comment, the user can see the reply view of that comment and can also reply right at the replies view and all data is saved to the database. | March 12, 2202, By Huy |
| Implement the function of adding, editing, and deleting categories | The function of adding, editing, and deleting categories of the QA manager is done by being able to add any category, once added, that category will display on the QA manager category page, in addition when the category has been added, the category can be edited or deleted depending on the QA manager. Besides, all the categories displayed on the category page of the QA manager will also be displayed on the post page for users to choose a category for articles. | March 22, 2022, By Huy |

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| **Knowledge skills** | **Employee Skill Development Details** | | |
| **Necessary Skills** | **Next Steps to Build Skills** | **Comments** |
| Design the login page and implement the decentralization for four roles user, admin, QA coordinator, and QA manager | Have design skills and user authorization | Step 1: Design login forms for users, and other roles  Step 2: Create a database, manipulate variables, enter data into the database and assign permissions for each different role.  Step 3: Perform input data check  Step 4: Make edits and deletes in the database and check the syntax and command lines.  Step 5: Perform output data check | This feature has been completed, but during the implementation process, there was an error when doing that is setting the wrong variable, entering the wrong data or missing data in the database, not considering the correct conditions for the data, and lacking some syntax errors during function execution, but has overcome the above difficulties. |
| Implement comment function, reply comment, and view replies | Skills in implementing the comment function, reply comment, and view replies | Step 1: Create two tables in the database including comments, reply to comments, perform operations with variables, evaluate conditions and save them to the database.  Step 2: Layout the comment section so that users can comment, reply to comments as well as see view replies.  Step 3: Import data from the outside to check whether the input data has been stored in the database or not.  Step 4: Check if variables and data have been set, edited, and deleted in the database as well as syntax or command line missing.  Step 5: Check the output data showing data from the database in the comment section. | When implementing this function, this feature is quite complicated when the comment feature must be displayed right on the comment section after the user comments, in addition, in each comment, there must be a comment reply section. There are some difficulties in implementing this feature as the data imported from outside is not saved in the database, so the data from the database is not displayed from the inside out, in addition, considering conditions for the variables were also incorrect, incorrect data entry and missing syntax resulted in the error and other affected features not executing, but after finding the cause of the error, it was resolved. |
| Implement the function of adding, editing, and deleting categories | Skilled in implementing the function of adding, editing, and deleting categories. | Step 1: Create a table and manipulate the data fields in the database to save the catalog.  Step 2: Design the category page layout to display data  Step 3: Check the input data imported from outside into the database and perform the functions of adding, editing, and deleting categories.  Step 4: See if the syntax, command line, or data fields have been properly qualified in the database, and also correct the necessary errors.  Step 5: Check the output data to see if the data is visible to the outside | In the process of implementing this function, there are some errors that are data not stored in the database, because the data fields in the database are not properly structured and the variables are not considered for conditions it's correct. Not only that, some data is set to the wrong variable, making it impossible to save data to the database, besides features such as adding, editing, and deleting also have some problems when they cannot be performed, specifically is not displaying data after adding categories and cannot edit or delete categories, due to syntax errors, missing some statements, wrong structure, but after finding the cause of the error, it is difficult to overcome. |

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| **Potential Distractions** | **Potential Distraction Details** | | |
| **Potential Distractions** | **Steps to Avoid Distractions** | **Comments** |
| Design the login page and implement the decentralization for four roles user, admin, QA coordinator, and QA manager | Missing data entry, incorrect conditions for variables, manipulation of wrong data fields, syntax errors resulting in data not being connected, and data not being stored in the database nor by the user. Users cannot access the site according to their respective roles. | Step 1: Focus on the variables declared in the database, review the matching conditions, and enter the complete data.  Step 2: Execute each statement in a clear sequence, checking for syntax and errors.  Step 3: Check if the input data is stored in the database.  Step 4: Edit, add, delete in the database.  Step 5: Check access to information of each person when accessing with different roles including user, QA coordinator, and QA manager. | The above issue has been resolved. |
| Implement comment function, reply comment, and view replies | The data is not displayed on the comment page, the comment reply and view replies feature cannot be executed, and the data cannot be displayed on both parts, because the data fields are not saved in the database, due to the causing syntax errors, some incorrect statement structures, missing data, and incorrect manipulation of variables, resulting in data not being displayed in comments and also in reply and view replies. | Step 1: Design the comment section, reply to comments and view replies to ensure a complete layout.  Step 2: Manipulate the data, link correctly and consider the condition that the data fields in the database are complete.  Step 3: Check the syntax or data fields in the database.  Step 4: Check the input data, then correct or check for errors to make sure the data has been successfully saved to the database.  Step 5: Check the output data | The above issue has been resolved. |
| Implement the function of adding, editing, and deleting categories | The data is not stored in the database and is not displayed to the outside and also cannot perform the functions of adding, editing, and deleting categories. | Step 1: Fully initialize the data fields as well as set the correct variables for the data fields and consider the correct conditions for the variables.  Step 2: Properly connect to the required database.  Step 3: See if the syntax and statements in the code have any errors, and the variables initialized in the database have considered true conditions.  Step 4: Check the input data to see if the data has been connected and saved to the database, if not, then edit, add or subtract to perform the features.  Step 5: Check the results to see if the data has been displayed to the outside | The above issue has been resolved. |

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| **Response** | **Reviewer Comment** |
| As a team member who is responsible for performing the tasks assigned by the team leader, besides ensuring the progress, and completion on time, with the assigned tasks including, decentralization, comment, reply comment and view list replies, add, edit, delete category all done in a sequential manner.  In addition, after completing the assigned tasks, it will help the members as well as monitor the work progress in the group such as which jobs are not completed or what errors need to be fixed for the members the group. |

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| **Final Signatures** | **Employee signature** | Huy | **Reviewer signature** | Group Member |
| **Date** | March 23, 2022 | **Date** | April 5, 2022 |