# Integration Tests

This section details the black box tests needed to ensure that each component of Wat Muen Ngoen Kong is interacting with other components as expected.

### Single-Result Database Query (Member by email)

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the web application can handle the case where only one member matches the member email. |
| **External Dependencies** | Find the email of a member in the database that only has one member in the database. |
| **Test Description** | 1) Start the web application  2) Select the search Member by email  3) Input and send a email of a member with only one member in the database |
| **Expected Results** | The web site displays the single result (member). |

### Multiple-Result Database Query (Member List)

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the web application can handle the case where multiple members match the member list. |
| **External Dependencies** | Find the list of member in the database that has multiple members in the database. |
| **Test Description** | 1) Start the web application  2) Select the search Member List |
| **Expected Results** | The web site displays multiple results (member list). |

### Single-Result Database Query (Admin by email)

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the web application can handle the case where only one admin matches the admin email. |
| **External Dependencies** | Find the email of an admin in the database that only has one admin in the database. |
| **Test Description** | 1) Start the web application  2) Select the search Admin by email  3) Input and send a email of a admin with only one admin in the database |
| **Expected Results** | The web site displays the single result (admin). |

### Multiple-Result Database Query (Admin List)

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the web application can handle the case where multiple admins match the admin list. |
| **External Dependencies** | Find the list of admin in the database that has multiple admins in the database. |
| **Test Description** | 1) Start the web application  2) Select the search Admin List |
| **Expected Results** | The web site displays multiple results (admin list). |

### Single-Result Database Query (Question by id)

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the web application can handle the case where only one question matches the question id. |
| **External Dependencies** | Find the id of a question in the database that only has one question in the database. |
| **Test Description** | 1) Start the web application  2) Select the search Question by id  3) Input and send a id of a question with only one question in the database |
| **Expected Results** | The web site displays the single result (question). |

### Multiple-Result Database Query (Member List)

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the web application can handle the case where multiple questions match the question list. |
| **External Dependencies** | Find the list of question in the database that has multiple questions in the database. |
| **Test Description** | 1) Start the web application  2) Select the search Question List |
| **Expected Results** | The web site displays multiple results (question list). |

### Member Login Success

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the Member can login to the website. |
| **External Dependencies** | The user has a member account. |
| **Test Description** | 1) Type the email and password into the website login screen  2) Click the “Sign In” button |
| **Expected Results** | The user is directed to the home page |

### Incorrect Login Failure

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that incorrect username and password pairs do not allow the user to access the website. |
| **External Dependencies** | The user knows an incorrect member account email and password pair. |
| **Test Description** | 1) Type the incorrect email and password pair into the member login screen  2) Click the “Sign In” button |
| **Expected Results** | The user is directed to the LoginErrorRetry pop-up |

### Add Member

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that member accounts can be added. |
| **External Dependencies** | None |
| **Test Description** | 1) Enter to the Sign up page  2) Enter a valid email, password, and confirmation password  3) Click the “Sign up” button  4) Perform the Login Success test with the email and password in step |
| **Expected Results** | 1) No error message appears after step  2) The same results from the Login Success test |

### Admin Login Success

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that the Admin can login to the website. |
| **External Dependencies** | The user has a admin account. |
| **Test Description** | 1) Type the email and password into the website login screen  2) Click the “Sign In” button |
| **Expected Results** | The user is directed to the home page |

### Incorrect Login Failure

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that incorrect username and password pairs do not allow the user to access the website. |
| **External Dependencies** | The user knows an incorrect member account email and password pair. |
| **Test Description** | 1) Type the incorrect email and password pair into the member login screen  2) Click the “Sign In” button |
| **Expected Results** | The user is directed to the LoginErrorRetry pop-up |

### Add Admin

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that admin accounts can be added. |
| **External Dependencies** | None |
| **Test Description** | 1) Enter to the Sign up page  2) Enter a valid email, password, and confirmation password  3) Click the “Sign up” button  4) Perform the Admin Login Success test with the email and password in step |
| **Expected Results** | 1) No error message appears after step  2) The same results from the Member Login Success test |

### Send Message

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that message can be added. |
| **External Dependencies** | None |
| **Test Description** | 1) Enter to the send email page  2) Enter a title, description (date time and place), and email  3) Click the “send” button  4) Perform the send success test |
| **Expected Results** | 1) No error message appears after step (3)  2) The user is directed to the send success pop-up |

### Delete Activity

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that Activity can be removed. |
| **External Dependencies** | Be an Admin only |
| **Test Description** | 1) Login to the Admin  2) Click “Activity”  3) Select a activity  4) Click the “Delete” button |
| **Expected Results** | 1) An activity be deleted |

### Edit Activity

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that Activity can be edited. |
| **External Dependencies** | Be an Admin only |
| **Test Description** | 1) Login to the Admin  2) Click “Activity”  3) Select a activity  4) Click the “Edit” button  5) Edit any Activity |
| **Expected Results** | 1) An activity be edited |

### Update history

|  |  |
| --- | --- |
| **Purpose** | The purpose of this test is to ensure that history can be update. |
| **External Dependencies** | Be an Admin only |
| **Test Description** | 1) Login to the Admin  2) Click “History”  3) Click the “History” button  4) Update any history |
| **Expected Results** | 1) An History be updated |