ICT50220- Implement and use a model view controller framework

**Assessment Task 2**

Sort and select candidates using MVC

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[2 The database is designed using ER- diagrams. 3](#_Toc105972397)

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[4 The application design and database design are presented in a professional design document including GUI. 5](#_Toc105972399)

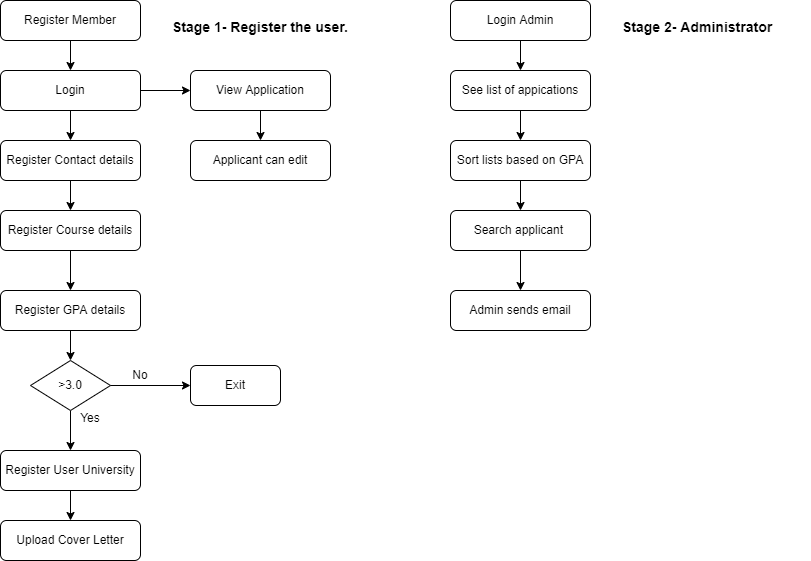
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# The requirements are converted into design using UML.



# The database is designed using ER- diagrams.

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDmRXhpZgAATU0AKgAAAAgABAE7AAIAAAAJAAAISodpAAQAAAABAAAIVJydAAEAAAASAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhlZSBDSE9JAAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjgAAJKSAAIAAAADNjgAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAOZH/JVJP+wPH/AOjpK6auZzj4pyYGf+JPHwP+u0ldJuP9xv0/xoAI/un/AHj/ADrmR4uMVusk4tnaNB9qCSY8h97KQ2Nx/hPABOR6AkdIjHafkbqfT1p24/3G/T/GjqHQ5n/hMftEY+x2qlmY4LuflAK5DDAIb5uR0Hqa0dG1s6vd3SqIRHEkbKEk3uu4vw/91vlHy849TWruP9xv0/xo3H+436f40AOopu4/3G/T/Gjcf7jfp/jQA6im7j/cb9P8aNx/uN+n+NADqKbuP9xv0/xo3H+436f40AOopu4/3G/T/Gjcf7jfp/jQA6im7j/cb9P8aNx/uN+n+NAHN61/yOXhb/r4uv8A0S1dNXM61/yOPhbt+/uv/RLV01ABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcyP+SqSf8AYHj/APR0ldNXM5x8U5MDP/Enj4H/AF2krpNx/uN+n+NABH90/wC8f51yq+Kp4XjlvLnTzHJHI7W6qwktmBACSMGbnJwfkHIPFdQjHafkbqfT1p24/wBxv0/xpagcuvjMyKJLazWdHhWZQJcfKUVzg4IP3uOnSpf+EgvE1CeWc2yafb25lmTyzvQrI0bnzN2Co2lvugkeldHuP9xv0/xqK5gjvLZ7e5hZ4pBh03YDD0OD09R36U+odLM5lfHtuUO+2VHLsiqZs+WQR/rcKfLyCMdck44611UUglhSQAqHUMAeoz9KjghjtlcQQFA7mRgCOWPU9al3H+436f40dA6jqKbuP9xv0/xo3H+436f40AOopu4/3G/T/Gjcf7jfp/jQA6im7j/cb9P8aNx/uN+n+NADqKbuP9xv0/xo3H+436f40Ac3rX/I5eFv+vi6/wDRLV01czrX/I4+Fu37+6/9EtXTUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBzI/5KpJ/wBgeP8A9HSV01cyM/8AC0pSBnGjx9P+u0ldJuP9xv0/xoAI/un/AHj/ADrlV8VTwvHLeXOnmOSOR2t1VhJbMCAEkYM3OTg/IOQeK6lSwHKN1J6j1+tLuP8Acb9P8aWoHLr4zMiiS2s1nR4VmUCXHylFc4OCD97jp0qvqfjiTS5glxFbIS7PiRmA8pAyyYYA5YSJwSAMOucc12G4/wBxv0/xo3H+436f40+odDnD4witjcC9jG5JmWJEOGlUMwwqk/MwC5OPWtfSNTXVtPW6RVALEfI+5TjuDgH8wP61c3H+436f40bj/cb9P8aFsA6im7j/AHG/T/Gjcf7jfp/jQA6im7j/AHG/T/Gjcf7jfp/jQA6im7j/AHG/T/Gjcf7jfp/jQA6im7j/AHG/T/Gjcf7jfp/jQBzetf8AI5eFv+vi6/8ARLV01c1rYI8ZeFs/897o/wDkBq6WgAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAI/PX0k/79t/hUP8AaVr/AGgtkZcXLxNMIyhB2AgE9PVgPf8ACuA8c/EVPCfiPw3oNvZST3uu38MAlkjYQxQmVUc7ujPhsBQeMhm42ht1f+Skw/8AYJk/9HJQB1XmL6/pR5i+v6VD/n/P+f8A65/n/P8An/64BN5i+v6UeYvr+lQ/5/z/AJ/+uf5/z/n/AOuASmVFUktwBkmk89fST/v23+FQTf6h/wDdP8v8/wCescn+tf8A3jQBb89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAF3z19JP+/bf4UeevpJ/wB+2/wqlRQBd89fST/v23+FHnr6Sf8Aftv8KpUUAXfPX0k/79t/hR56+kn/AH7b/CqVFAFDVPD0Gp6v/aUepapYXHkLATZ4UMoZmGcoT1Y9/Sq//CLv/wBDP4j/AO/q/wDxuteigDI/4Rd/+hn8R/8Af1f/AI3R/wAIu/8A0M/iP/v6v/xuteigDI/4Rd/+hn8R/wDf1f8A43R/wi7/APQz+I/+/q//AButeigDI/4Rd/8AoZ/Ef/f1f/jdH/CLv/0M/iP/AL+r/wDG616KAMj/AIRd/wDoZ/Ef/f1f/jdH/CLv/wBDP4j/AO/q/wDxuteigDI/4Rd/+hn8R/8Af1f/AI3R/wAIu/8A0M/iP/v6v/xuteigDI/4Rd/+hn8R/wDf1f8A43R/wi7/APQz+I/+/q//AButeigDI/4Rd/8AoZ/Ef/f1f/jdH/CLv/0M/iP/AL+r/wDG616KAMy08MQ2+rWmoXGr6xfSWjM0SXRDKCyFT0QHofX0roPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8KPPX0k/79t/hVKigC756+kn/ftv8Kqza1ptvM0VxexRSL1R22kd+hpledeKf+Rluv8AgH/oC0Ab3j23hn0OwkmhjkeDW9MkiZ1BMbfbYV3Kex2swyOzEd6uJz8SYf8AsEv/AOj46KKAOkXnGfb/ANl/xP50LzjPt/7L/ifzoooAF5xn2/8AZf8AE/nQvOM+3/sv+J/OiigCOY/6O/8Auf0H+J/OmSf61/8AeNFFADaKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK868U/8jLdf8A/9AWiigD/2Q==)

When User log in, I put id and email into the session. And when the user clicks Apply, the current time and e-mail in the session are handed over to the form. In the form to be entered by the user, the user can check handed over the email and current time are registered. Those will hand over to the database through Post method. So, the Email field in the AspNetUsers table and UserEmail in the StudentInfos table can be matched.

# The GUI of the requirements are determined.

# The application design and database design are presented in a professional design document including GUI.

**Process of logging in and registering the application after registering as a member**

Graphical user interface

Description automatically generated

**Process when user wants to change application**

Graphical user interface, text, application, email

Description automatically generated

**Admin Page**

Graphical user interface, application

Description automatically generated

# The application is designed using MVC and is confirmed with client.

# The test cases are designed and prepared according to specifications which confirms all the scenarios.

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Test Cases** | **Pass / Fail** | **Tested By** |
| **All Processes of logging in and registering the application after registering as a member** | | | |
| 1 | Join Member  [choi100@gmail.com](mailto:choi100@gmail.com)  Pass123?? | Pass | Hee young |
| 2 | Login | Pass | Hee young |
| 3 | Register Contact Details | Pass | Hee young |
| 4 | Register GPA  (If User’s GPA is less than 3.0, confirm that He(She) cannot register. | Pass | Hee young |
| 5 | Register University | Pass | Hee young |
| 6 | Register CV | Pass | Hee young |
| **Process when user wants to change application** | | | |
| **1** | Login  [choi100@gmail.com](mailto:choi100@gmail.com)  Pass123?? | Pass | Hee young |
| 2 | View Edit page | Pass | Hee young |
| 3 | Applicant can edit | Pass | Hee young |

**6.2 ADMIN PAGE**

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Test Cases** | **Pass / Fail** | **Tested By** |
| 1 | Login Admin | **Pass** | Hee young |
| 2 | See list of applications | **Pass** | Hee young |
| 3 | Sort lists based on GPA | **Pass** | Hee young |
| 4 | Search Applicants | **Pass** | Hee young |
| 5 | Admin sends email  : The SMTP server requires a secure connection or the client was not authenticated. | **?** | Hee young |

# Debug

: mail can get Body, Email .. However, It has problem between google authentication and browser.

|  |
| --- |
| **1. sending Email** |
| **Text  Description automatically generated** |

# Identity Table

**Identity Table Structure**

|  |  |  |
| --- | --- | --- |
| **Table Name** | **Class Name** | **Description** |
| dbo.AspNetUsers | ApplicationUser (User Class) | UserID, Password, Email…. |
| dbo.AspNetRoles | ApplicationRole(Role Class) | Member classification of the website (super administrator, administrator, general user) |
| dbo.AspNetUserRoles | Match ApplicationUser and ApplicationRole. |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **NO.** | **UserManager** | **SignInManager** | **RoleManager** |
|  | UserName, Email | | RoleName |
| 1 | createUser() | SignIn() | CreateRoleAsync()  : dbo.AspNetRoles |
| 2 | deleteUser() | SignOut() | DeleteRoleAsync() |
| 3 | GenerateToken() | PasswordSignInAsync() | FindByIdAsync() |
| 4 | FindByIdAsync() |  |  |
| 5 | ConfirmEmailAsync() |  |  |
|  | IsInRoleAsync() |  |  |
|  | AddToRoleAsync() |  |  |