**Computer System Security**

**CT013-3-3-CSS**

**Progress Form**

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| --- | --- | --- | --- | --- | --- |
| **Names:** | | KHOR ZHE SHENG | AARON CHAN WENG LOON | TAN SEA NI | GAN HAN SIANG |
| **TP No.s:** | | TP035053 | TP034921 | TP036692 | TP036727 |
| **Intake(s):** | | UC3F1711IT(CC) | UC3F1711IT(CC) | UC4F1711EE(IT) | UC3F1711IT(NC) |
|  | | | | | |
| **1** | **Your Proposed System** | | | | |
| **1.1** | **Title** | | | | |
|  | Golf Club Membership Management System | | | | |
| **1.2** | **General Description** | | | | |
|  | This Windows application’s main function is to allow the user to add other users with various roles and permissions to manage the existing members in the system, including payment. With the options of searching, deleting and editing existing members. | | | | |
| **1.3** | **Main Components** | | | | |
|  | The main functionality of the Golf Club Membership Management System is to ensure the users stored within the system are safe and easily assessible by the admins and staff of the Golf Club to ensure the confidentiality of the members personal information. | | | | |
| **1.4** | **Design: (Use Case/Flowchart/….)** | | | | |
|  | Please refer to the Microsoft Visio file attached in the e-mail. | | | | |
| **1.5** | **Techniques:** | | | | |
|  | 1) Confidentiality:  We will most likely be using the DES Algorithm in carrying out our file encryption.  2) Integrity:  We will use MD5 to hash selected files to ensure the selected files are not edited by anyone. We might also use SHA hashing to uniquely identify secret information.  3) Availability:  The registration function will be able to register new administrator account in the system and record the account login credentials into the database. | | | | |
| **1.6** | **Extra Features:** | | | | |
|  | * Allow the Admin to check the logs of who have logged in before hand * We will have a password strength bar to determine the strength of the users’ password to ensure the integrity of their password * We will have an Email Verification Code Procedure to prevent impersonation of other users * Captcha functionality will be included for the sake of preventing spam | | | | |
| **2** | **Requirements** | | | | |
| 2.1 | Hardware/software/tools | | | | |
|  | The developed product will be a Windows Form Application.  The library used will be .NET Framework 4.6.1. | | | | |
| **2.2** | **Programming language** | | | | |
|  | Visual Basic.NET | | | | |
| **2.3** | **Database** | | | | |
|  | Microsoft Access | | | | |
| **2.4** | **Remarks** | | | | |
|  |  | | | | |
| **3** | **Your Progress:** | | | | |
| **3.1** | **Gantt chart:** | | | | |
|  | Please refer to the Microsoft Project file attached in the e-mail. | | | | |
| **3.2** | **Current stage** | | | | |
|  |  | | | | |
| **3.3** | **Next step:** | | | | |
|  | Add prevention, encryption and safety measures towards preventing intruders from accessing the system without permission. | | | | |
| **3.4** | **Challenges/Difficulties:** | | | | |
|  | * Ensuring the system is not too weak when it comes to security and thus sacrificing the convenience and flexibility when signing in by the user. * Ensuring sufficient security and functionality is provided inside the system to avoid it from being redundant from existing management systems available currently. | | | | |
| **3.5** | **Remarks:** | | | | |
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