**Computer System Security**

**CT013-3-3-CSS**

**Progress Form**

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| --- | --- | --- |
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| **TP No.:** | |  |
| **Intake:** | | UC3F1508IT(ISS) |
|  | | |
| **1** | **Your proposed system** | |
| 1.1 | General Description | |
|  | Grading System is a desktop application which use to store student marks in the university. The users of this application are lecturer, examiner and students. Lecturers are able to input student’s score marking and the system will automatically determine the grade system. Security features such as login, hashing, encryption feature and captcha are implemented inside the system so that the data can be protected. | |
| 1.2 | Main Components | |
|  | 1. Register 2. Login 3. Insert Data 4. Update Data 5. Delete Data 6. Encryption 7. Captcha 8. Hashing   Last modified | |
| 1.3 | Use Case/Flowchart/…. | |
|  |  | |
| 1.4 | Technical Description | |
|  | 1. Register   The system provides a registration form so that users can register for the website   1. Login   Users can login into the website to create and edit their profile. The minimal characters for passwords is 8   1. Insert data   Users can insert data to the system   1. Update   Users can update data on the system   1. Delete   User can delete some records in the system   1. Encryption   Several information inside the database is encrypted to avoid data forgery   1. Captcha   Captcha is placed before the registration happens so that there is no spam bot registering the system   1. Hashing   User can check data integrity of a file in the system using hashing feature | |
| 1.5 | Techniques used: | |
|  | 1) Confidentiality:  Marks is a private data for a student, Student A is not able to see Student B’s mark  2) Integrity:  Some of the data is encrypted to avoid being stolen and edited by unauthorized user.  3) Availability:  Every user has different access to the system, for example, both student and examiner have different access to the system. | |
| **2** | **Resources** | |
| 2.1 | Hardware/software/tools | |
|  | Notepad++  Netbeans | |
| 2.2 | Programming language | |
|  | JAVA programming | |
| 2.3 | Database | |
|  | Txt file | |
| 2.4 | Remarks | |
|  |  | |
| **3** | **Your Progress:** | |
| 3.1 | Gantt chart | |
|  |  | |
| 3.2 | Current stage | |
|  | 1. Register 2. Login 3. Save, edit, update | |
| 3.3 | Next step | |
|  | 1. Add captcha to the website 2. Hashing 3. Encryption 4. … | |
| 3.4 | Difficulties | |
|  | 1. Captcha 2. Data integrity check | |
| 3.5 | Remarks | |
|  |  | |