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| logo | **MINISTRY OF EDUCATION AND TRAINING**  **FPT UNIVERSITY** |

**SCOPE OF CAPSTONE PROJECT**

Class: ES20702 & CS0701 Duration time: from 5/2015 to 8/2015

Profession: Software Engineer & Computer Science

Specialty: ES CS

**1. Supervisor**

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|  | **Full name** | **Phone** | **E-mail** | **Title** |
| **Supervisor** | **Nguyễn Tất Trung** | 0904399139 | *trungnt@fpt.edu.vn* |  |
| **Supervisor** | **Phạm Quang Dũng** | 0947732280 | *dungpq1@fsoft.com.vn* |  |

**2. Information for students**

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| --- | --- | --- | --- | --- | --- |
|  | **Full name** | **Student code** | **Phone** | **E-mail** | **Role in Group** |
| **1** | **Nguyễn Sơn Hà** | SE02618 | 0945488693 | [*hansse02618@fpt.edu.vn*](mailto:hansse02618@fpt.edu.vn) | Leader |
| **2** | **Hoàng Minh Đức** | SE02551 | 0904634667 | [*duchmse02551@fpt.edu.vn*](mailto:duchmse02551@fpt.edu.vn) | Member |
| **3** | **Lưu Thành Công** | SE02543 | 01656083093 | [*congltse02543@fpt.edu.vn*](mailto:congltse02543@fpt.edu.vn) | Member |
| **4** | **Nguyễn Văn Hoài** | SE90901 | 01659029841 | [*hoainvse90901@fpt.edu.vn*](mailto:hoainvse90901@fpt.edu.vn) | Member |

**3. Register content of Capstone Project**

3.1. Project name:

Vietnamese: **Xếp lịch học cho FU**

English: **Course Scheduling for FPT University**

3.2. Main proposal content (including result and product)

1. Objective:

The main goals of project:

* To create a better way to schedule courses for admin in FU with all information they need will be shown for them to manage.

Objectives:

* Working with 4 members in 11 weeks to:
  + Develope a website allowed user to manage data and schedule courses for FPT University.
  + Provide function to schedule courses automatically.

1. Requirements and the time to execute (%):

*Software: (Max 15 items)*

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| **No** | **Use case level 1** | **Use case level 2** | **Description**  *(user case)* | **Time to execute**  *(in day or %)* |
| 1. | Admin | Manage Semesters | **Administrator**: Manage (Create, Delete, Edit,… ) information of semesters. | 4% |
| Manage Courses | **Administrator**: Manage (Create, Delete, Edit,… ) information of all courses and semester’s courses. | 4% |
| Manage Classes | **Administrator**: Manage (Create, Delete, Edit,… ) information of all classes and semester’s classes. | 3% |
| Manage Teachers | **Administrator**: Manage (Create, Delete, Edit,… ) information of all Teachers and semester’s teachers. | 3% |
| Manage Rooms | **Administrator**: Manage (Create, Delete, Edit,… ) information of all Rooms and semester’s rooms. | 2% |
| Manage Busy Days of Teachers | **Administrator**: Manage (Create, Delete, Edit,… ) information of all Busy Days of Teachers in each semester. | 3% |
| 2. | Teacher | Add busy days | **Registered User**: Users (Teachers) can register their busy day in website and help admin schedules their courses in new semester. | 5% |
| 3. | Schedule Courses | Manual | **Administrator:** Admin uses the data to schedule courses in new semester. | 30% |
| Automatic | **Administrator**: Admin can also choose automatic and let’s server schedules courses for him (her). | 30% |
| 7. | Security | Authentication |  | 2% |
| Page Access Control |  | 2% |
| Forcing Https |  | 3% |
| Code Access Security |  | 3% |
| Cross-site request forgery |  | 3% |
| Cross-site scripting prevention |  | 3% |

1. Results:

*Website and server*: Complete all functional requirements.

**4. User types**

*Guest (Unregistered user) can not access to the website information.*

*Registered user (Teachers) can:*

* *Register their busy day*
* *See (and manage) their timetable.*

*Administrators can:*

* *Manage Teachers*
* *Manage Classes*
* *Manage Courses*
* *Manage Semesters*
* *Manage Rooms*
* *Manage Teacher’s busy day.*
* *Schedule courses.*

**5.** **Evaluation of Lecturer about students**

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|  | *Hanoi, date 14/05/2015.*  Nguyen Son Ha |