**

**CAPSTONE PROJECT REGISTER**

Class: Duration time: From 1/1/2023 To 31/4/2023

(\*) Profession: <Software Engineer> Specialty: <ES> <IS> <JS>

X

(\*) Kinds of person make registers: Lecturer Students

X

1. Register information for supervisor (if any) - mentor

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| --- | --- | --- | --- | --- |
|  | **Full name** | **Phone** | **E-Mail** | **Title** |
| Supervisor 1 | Ngô Đăng Hà An | 0906782333 | anndh2@fe.edu.vn | Mr. |
| Supervisor 2 |  |  |  |  |

2. Register information for students (if have)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Full name** | **Student code** | **Phone** | **E-mail** | **Role in Group** |
| Student 1 | Văn Bá Khánh Duy | SE150520 | 0837130401 | Duyvbkse150520@fpt.edu.vn | Leader |
| Student 2 | Nguyễn Thành Công | SE151288 | 0857406604 | Congntse151288@fpt.edu.vn | Team Member |
| Student 3 | Trần Phạm Kim Sơn | SE151317 | 0924346202 | Sontpkse151317@fpt.edu.vn | Team Member |
| Student 4 | Nguyễn Ngọc Long | SE151484 | 0963702739 | Longnnse151484@fpt.edu.vn | Team Member |

3. Register content of Capstone Project

(\*) 3.1. Capstone Project resume:

* English: Ebiz – Learning Material Management System.
* Vietnamese: Phần mềm Quản lí Tài liệu Học tập của công ty Ebiz.
* About Ebiz: Ebiz is a premier technology consulting firm that provides innovative software services and digital solutions to empower its clients to achieve more. Recently Ebiz has been working with some Education Organizations to develop and deploy many projects include Ebiz Study Material Management System.
* Context: A study material management system is software that is designed to manage all the functions of a study material center. It helps administrator to maintain the database of new study materials and the materials that are borrowed by members along with their due dates.
* Abbreviation:

Building a system to provide the following services:

- Study material and study material related entities (author, publisher, study bookshelf, categories, physical copy, digital file, etc..) management:

* Allow authorized personnel to create and update information of physical/digital study materials and study material related entities
* Allow authorized personnel to bulk import study materials and study material related entities.
* Allow authorized personnel to activate/deactivate study material and study material related entities.
* Allow authorized personnel to generate system study material reports.

- Borrow/return/extend borrow period request management:

* Allow authorized personnel to view and review study material borrow/return/extend borrow request.
* Allow authorized personnel to process study material borrow/return/extend borrow request (confirm, decline) and note on the request for review later.

- Role and permission management:

* Allow authorized personnel to view all system permissions.
* Allow authorized personnel to create and update role and role’s permissions.

- User and department management:

* Allow authorized personnel to view all system departments.
* Allow authorized personnel to activate/deactivate study material center accounts.

- System settings management:

* Allow authorized personnel to configure system default settings.

- System notify and reminder:

* Send notify for authorized personnel manager about study material borrow/return/ extend borrow request.
* Send back notify for borrower when request has been processed.
* Remind borrower whenever physical study material copy return date is close to due date.

(\*) 3.2. Main proposal content (including result and product)

1. Theory and practice (document):

* The documents include User Requirement, Software Requirement Specification, Architecture Design, Detail Design, System Implementation, and Testing Document, Installation Guide, sources code, and deployable software packages.
* Server-side technologies:
* Server: .NET 5.0, Linux, RESTful API, Hangfire, SignalR, RabbitMQ.
* Database Design: PostgreSQL.
* Client-side technologies:
* Web Client: HTML5, CSS3, JavaScript, ReactJS, TypeScript.

1. Program:
2. Authorized personnel with specified permission for each function:
   1. View details of a pending digital study material borrow request
   2. Accept pending digital study material borrow request
   3. Reject pending digital study material borrow request
   4. View all accepted digital study material borrow requests
   5. View all declined requests to borrow digital study materials
   6. View all canceled digital study material borrow requests
   7. View all requests to borrow digital study materials
   8. View pending physics study material borrow requests
   9. Reject request to borrow physical study materials
   10. See accepted physics study material borrow requests
   11. See a denied request to borrow a physics study material
   12. See the canceled request to borrow physical study materials
   13. View details of study materials waiting to receive
   14. Confirm physical study material has been received
   15. Confirm physical study material has been received with ISBN
   16. View details of borrowed study materials
   17. Confirm the return of borrowed study materials
   18. View details of overdue study materials
   19. Returning overdue study materials
   20. Return overdue study materials by ISBN
   21. View details of study materials awaiting approval for renewal
   22. Accepting study materials pending approval for renewal
   23. Reject study materials pending approval for renewal
   24. View details of accepted study material renewal requests
   25. View the details of a rejected study material renewal request
   26. View details of a request for renewal of canceled study materials
   27. View details of all study material renewal requests
   28. Generate study material borrows with ISBN
   29. Create Offline Study material Borrowers
   30. More study materials
   31. Add study materials in bulk (Bulk Import)
   32. Get the template to import study materials in bulk (Get Template)
   33. Update study material information
   34. View study material details
   35. More copies of physics study materials
   36. Add copies for bulk physics study materials (Bulk Import)
   37. Get the template to enter bulk study material copy information
   38. Update information for copies of physical study materials
   39. Hide study materials
   40. Export imported study material information (Export History)
   41. Add new author
   42. Update author information
   43. View author information
   44. Hide author
   45. Add a new publisher
   46. Update publisher information
   47. View publisher information
   48. Hide publisher
   49. View study bookshelf information
   50. Add new study bookshelf
   51. Update study bookshelf information
   52. More area on the study bookshelf
   53. Update area information on the study bookshelf
   54. Erase the area on the study bookshelf
   55. Clear the study bookshelf
   56. Add new study material genre
   57. Update study material genre information
   58. View detailed information about the department
   59. View detailed user information in the system
   60. Disable user accounts in the system
   61. Assign new roles to users in the system
   62. Remove the user's role in the system
   63. View all roles in the system
   64. Create a new role in the system
   65. Assign permissions to new roles in the system
   66. View all permissions in the system
   67. View system settings
   68. Update [Default watermark]
   69. Update [Default study material image]
   70. Update [Borrow duration in days]
   71. Updated [Borrow request limit]
3. Authenticated user:
   1. View notifications
   2. View notification details
   3. View all notifications
   4. Mark all as read
   5. View account information
   6. Log out of the system
   7. View study materials all study materials in the study material center
   8. Find study materials in the study material center
   9. Filter study materials in the study material center
   10. View study material information
   11. Borrow study materials
   12. Download study materials
   13. View borrowed digital study materials
   14. View all borrowed digital study materials
   15. Read the borrowed digital study material
   16. Extend borrowed digital study material return date
   17. Return borrowed digital study material early
   18. View physics study materials waiting to receive
   19. View received and borrowed physics study materials
   20. View overdue physics study materials
   21. View all borrowed physics study materials
   22. Renew borrowed physics study materials
   23. View pending study material renewal requests.
   24. View details of study materials pending approval for renewal.
   25. Cancellation of pending study material requests.
   26. View details of d study materials for renewal.
   27. View details of und study materials
   28. See the details of the renewal cancellation study material.
   29. View study material details for all study material extend return date requests.
   30. View details of requests to borrow digital study materials pending approval
   31. View details of the request to borrow a digital study material
   32. View details of the request to borrow digital study materials
   33. View details of a canceled digital study material loan request
   34. View details of all submitted digital study material loan requests
   35. View the details of the request to borrow a physical study material that is being processed
   36. See the details of the accepted request to borrow physical study materials
   37. See the details of the rejected request to borrow a physics study material
   38. View the details of the canceled physical study material loan request
   39. View details of all requests to borrow physical study materials
   40. View digital study material borrowing history
   41. View the history of borrowing physics study materials
4. Unauthenticated user:
   1. Login

4. Other comment (propose all relative thing if have)

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| **Supervisor (If have)**  *(Sign and full name)* | ……………….., date …./…../………….  **On behalf of Registers**  *(Sign and full name)* |