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CSC_450

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Deployment Plan

Deployment Goals:

- Successfully deploy the portfolio evaluation website for use by professors.
- Provide a centralized and efficient method for professors to evaluate student portfolios.
- Ensure the website is accessible, user-friendly, and secure.
- Minimize disruption to ongoing evaluation processes during deployment.

Deployment Scope:

- Deploy the latest version of the portfolio evaluation website specifically designed for three portfolio evaluation courses.
- Develop the website using HTML, Tailwind CSS, and JavaScript
- Include features such as professor registration, portfolio submission, evaluation forms, grading criteria/rubrics, and reporting.

Deployment Environment:

- Target Production Environment:
 - Operating System: Windows 10
 - Web Server: Apache HTTP Server or Nginx
 - Database: MySQL

Deployment Activities:

- Set up dedicated production server or cloud instance for the portfolio evaluation website.
- Install and configure the necessary stack, such as the web server and the chosen database.
- Develop the website using HTML, Tailwind CSS, and JavaScript to implement the required functionality and user interfaces.
- Customize the website to incorporate the specific of the three portfolio evaluation courses, including grading criteria, course details, and evaluation workflows.
- Design and integrate evaluation forms that professors can use to assess and grade portfolios.
- Develop reporting features to generate comprehensive evaluation reports for each course and individual portfolios.

- Perform thorough testing in a staging environment to verify website functionality, user experience, and data integrity.
- Migrate the tested website to the production server and ensure compatibility with the production environment.
- Set up backup and disaster recovery procedures to safeguard data and ensure system availability.

Roles and Responsibilities:

- System Administrator: Responsible for server setup, software installation, and server maintenance.
- Development Team: Responsible for website development, customization, and testing.
- Quality Assurance Team: Responsible for testing website functionality, user experience, and data integrity.
- Project Manager: oversees the deployment process, coordinates between teams, and ensures adherence to deployment plan.

Dependencies and Pre-Requisites:

- Provision a dedicated production server or cloud instance with appropriate specifications.
- Configure the server with the necessary network settings and ensure internet connectivity.
- Install and configure the required software components, such as the operating system, web server, and database server.

Risk Assessment and Mitigation:

- Risk: Data loss during deployment or server failure.
 - Mitigation: Regularly perform backups and implement redundancy measures to ensure data integrity and availability.
- Risk: Compatibility issues with the production environment.
 - Mitigation: Conduct thorough testing in a staging environment that closely resembles the production setup before deployment.
- Risk: User resistance or low adoption rate among professors.
 - Mitigation: Conduct training sessions and provide documentation to familiarize professors with the website's features and benefits.

Testing and Rollback Plan:

- Conduct comprehensive testing in the staging environment, including functional testing, usability testing, and performance testing.
- Develop a rollback plan that includes taking a backup of the previous version and documenting the steps to revert to the previous state if critical issues are encountered during deployment.

Communication Plan:

- Notify professors about the deployment schedule and provide clear instructions for accessing the website.
- Communicate any anticipated downtime and potential impact on ongoing evaluations.
- Offer support channels and contact information for professors to address any questions or issues.

Post-Development Activities:

- Monitor the website's performance user feedback, and system logs to identify and address any issues promptly.
- Collect feedback from professors and students to understand their experience and identify areas for improvement.
- Plan and schedule regular maintenance tasks, updates, and enhancements to ensure the website remains functional and up to date.