Southern New Hampshire University

Angel Baez

CS-499

Milestone Two 3-1

Part One:

1. **How might you use an ePortfolio for the benefit of self-promotion?**

   An ePortfolio is a digital presentation tool that showcases my academic, personal, and professional achievements. It is a vital resource for demonstrating my skills, experiences, and goals. A well-structured ePortfolio is important, but it is equally essential to include well-developed projects highlighting my competitiveness in the job market. Publishing my best work to an ePortfolio can serve as an opportunity to present my capabilities in my field of study visually.

2. **How might you mitigate risks while maximizing the marketing potential of the ePortfolio?**

   The most effective way to mitigate risks through an ePortfolio is to be selective about how I choose to publish a project. I should share improved versions of my work that use my coding techniques while avoiding sensitive or real data that could be misused. Adding author notes to my projects can also help prevent improper use of the content. At the same time, this approach showcases my professionalism and highlights my intellectual abilities safely and responsibly.

3. **Describe possible downsides or risks, for instance, the risks of posting intellectual property online for public consumption.**

Publishing work in an ePortfolio also comes with certain risks, and sometimes these are risks we must accept. The use of ideas by others for personal purposes may not always be a significant concern. However, the real issue arises when there is no control over the potential for profit or even misuse, such as being used for inappropriate activities. Additionally, I must consider that potential employers may review my ePortfolio, and if the projects do not meet professional standards, this could work against me. That is why ensuring that my shared content reflects my skills and professionalism is important.

4. **Which course outcomes have you achieved so far, and which ones remain?**

I have been actively working across all course artifacts, but the areas where I have focused the most so far are software design**,** algorithms**,** and data structures. For the CS-340 Client/Server artifact that uses MongoDB, I established a secure and functional database connection using custom modular classes. In the CS-360 Mobile Architecture project**,** I prioritized ensuring that the application correctly handles the creation of users and products before planning the migration to an external database. I also spent considerable effort improving the layout (XML) files to enhance the user interface (UI), aiming for a more intuitive, clean, and functional experience.

Regarding the CS-320 JUnit Testing artifact (CustomerService.java), I improved the algorithmic logic and structure, focusing on edge case handling and validating service-level decisions through proper test coverage. Although there is still significant work ahead to finalize each enhancement, I believe I can complete and polish all artifacts

successfully for the final ePortfolio submission with sustained effort and time management.

Part Two:

CS-340 CLIENT/SERVER

Checkpoint	**Software Design and Engineering**	**Algorithms and Data Structures**	**Databases**
Name of Artifact Used	Animal Rescue Grazioso (Python)	Callback filtering improved for dynamic structures	MongoDB is integrated with better CRUD logic. Connection parameters and migration
Status of Initial Enhancement	Code refactoring for better reusability and maintainability	Reorganize code logic and callbacks for data rendering	Migrate DB from external to local, connection/authentication verification. Preparing codes for external Mongo Atlas migration
Submission Status	In progress	In progress	In progress
Status of Final Enhancement	Code improved for maintainability and scalability	Callback optimized for Realtime filtering	Improved/secured CRUD/Preparing for Mongo Atlas migration
Upload to ePortfolio	No	No	No
Status of Finalized ePortfolio	In progress	In progress	In progress

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CS-320 Junit Test

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	CustomerServive JUnit Test (Java)	Logic of input validation data for edge cases	No DB is used for this artifact.
Status of Initial Enhancement	Verify logic for class methods for better decision-making logic	Refactorization of logic for edge cases	N/a
Submission Status	In progress	In progress	N/A
Status of Final Enhancement	Improved modularity of structure and class testing design	Logic revised and improved against invalid user input information	N/A
Upload to ePortfolio	No	No	No
Status of Finalized ePortfolio	In progress	In progress	N/A

CS-360 MOBILE ARCHITECTURE

Checkpoint	Software Design and Engineering	Algorithms and Data Structures	Databases
Name of Artifact Used	Warehouse Inventory Mobile App	CRUD logic optimization and methods improvement	SQLite local with DBHelper/CRUD Methods
Status of Initial Enhancement	Layout/classes improvement	Logic refactoring/input error handling for user input	Data verification existence/DB migration to external
Submission Status	In progress	In progress	In progress
Status of Final Enhancement	Layout/classes modification, better view	Logic revised and improved against invalid user input information	Verification of data before adding to the DB

Upload to ePortfolio	No	No	No
Status of Finalized ePortfolio	In progress	In progress	In progress