**Evelyn Castro**

**3/22/25**

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

An ePortfolio is a dynamic platform that showcases my skills and achievements in software development. It provides potential employers with evidence of my abilities through project descriptions and code samples. For instance, I can highlight my User Authentication System project, where I implemented password hashing for an Android app, and my work on SQLite User Management, demonstrating my database management expertise. By including project details and reflective blogs, I can show how I adapt to new technologies and solve real-world problems.

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

To mitigate risks and maximize my ePortfolio's marketing potential, I will protect intellectual property by showcasing only my own projects or those with permission for sharing, particularly regarding sensitive code. I'll use GitHub for version control and documentation, ensuring proper licensing and clear usage guidelines. I will maintain professionalism with concise project descriptions, avoid unnecessary personal details, and optimize searchability with relevant keywords while limiting personal information.

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

Posting an ePortfolio publicly has downsides, such as the risk of code theft and misuse. To address this, I will license my code under an open-source or restricted-use license. Another concern is security vulnerabilities, especially with projects like my User Authentication System; I’ll avoid sharing sensitive credentials, real API keys, or proprietary algorithms. Lastly, to prevent outdated information from creating a negative impression, I plan to regularly update my content.

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

I have enhanced my User Authentication System with password hashing, UI improvements, and database versioning. I developed an SQLite User Management system for account management and data storage. I also optimized data retrieval in my MongoDB dashboard project using algorithms and data structures. Next, I plan to refine my projects by improving documentation, optimizing code, and finalizing my ePortfolio with structured project descriptions and code samples.

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| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
| **Name of Artifact Used** | Android Authentication App | User Authentication System | SQLite User Management |
| **Status of Initial Enhancement** | The initial version of the app was successfully developed, with user login and basic inventory management features implemented. | The initial version included a basic user authentication system using SQLite to store and verify user credentials. | Enhanced CRUD operations and visualization features. |
| **Submission Status** | Submitted for initial review. | Not submitted | Not submitted |
| **Status of Final Enhancement** | Final enhancements included refining the user interface, improving error handling, and adding session management features for a smoother user experience. | The final enhancements involved hashing passwords using SHA-256 for increased security and refining the login logic for better performance. | Final improvements included optimizing database queries for performance and implementing data validation to ensure correct data input. |
| **Uploaded to ePortfolio** | In progress | Not yet | Not Yet |
| **Status of Finalized ePortfolio** | Awaiting final edits before submission. | Pending | Pending |