**Action Plan - Secure Software Development (Computer Science )**

By: Patricia Annette C. Santos

**Where do I want to be by the end of this period/year?**

**What do I want to be doing? (Include as many learning needs as required to achieve agreed objectives)**

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| --- | --- | --- | --- | --- |
| What do I want/need to learn?Provide a specific description of the desired changes (e.g. skills to gain, knowledge to acquire, topics/themes/content to cover) | What do I have to do to achieve this?Some examples, a new/ongoing course, conference, self-development (like wider research or reading), coaching/mentoring, job shadowing | What resources or support will I need?Some examples, teaching staff support, library support, student advisor support, line manager, etc. | How will I measure success?Some examples, appraisals, course assessments, team feedback, tutor feedback | Target dates for review and completionNote that these need to be realistic/achievable |
| Proposing a secure software design document in a team setting | * Watch lecturecasts * Attend live seminars * Wider research/reading   About OWASP top ten web application risks and top ten protocols  - Collaborate with group mates | * Lecturecasts * Module reading requirements * Project management tools like Mibo * Online communication tools like WeChat and Zoom | * Tutor feedback on design drafts * Sprint reviews * Sprint retrospectives * Constant communication with teammates | **Review:**  -Weekly meetings from Weeks 1-6.  -Team consultation with tutor on April 4th, 2024  **Completion:**  -Design document deadline on April 22nd, 2024 |
| Individually coding output of the design document with security features | * Review UML * Study ontology design * Watch videos about API * Work on all coding activities recommended in this module * Watch lecturecasts * Attend live seminars | * Tutorial videos on how to make an API * Practice Django and Flask coding in Python * Github for source code to be modified   - Team design document | * Security measures will be implemented in the coding output * Application can be presented in an API * Application will run during the API demonstration | **Review:**  Units 9-11.  **Completion:**  Submission of the development individual project on May 27th, 2024 |
| Secure software development techniques (Regex, cryptography, testing, using linters, etc.) | * Watch lecturecasts * Attend live seminars * Work on e-Portfolio and seminar activities * Research * Module readings | * Module readings * Module activities * Online research | * Accomplishment of e-Portfolio and seminar activities | **Review:** Units 3-12  **Completion:** Submission of e-Portfolio on June 3rd, 2024. |
| e-Portfolio | * Work on e-Portfolio based on tutor feedback * Continue develop the e-Portfolio website * Provide artifacts of my learnings for each unit | * Github * PyCharm * Google drive | * Evidence unit artifacts are provided in the e-Portfolio. * Reflective Piece * Tutor feedback on e-Portfolio and Reflective Piece | **Review:** Units 1-11  **Completion:** Submission of e-Portfolio on June 3rd, 2024. |

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**Reference:**

University of Essex Online (N.D.) Creating your e-Portfolio. Available from: <https://www.my-course.co.uk/mod/book/view.php?id=397323&chapterid=4270> [Accessed: 15 February 2024.]