

Is your software design worth developing?

Final Products – Summative Assessment components	Learning Outcomes	Checkpoints / Formative Assessments (Content areas)	Instructional Strategies / Resources
<p>Individual evaluation of the problem and its suitability for a CS solution – refer to project documents (5)</p> <ul style="list-style-type: none"> <li>- Why is this problem worth solving?</li> </ul>	<p>P4.1 - Analyses a given problem in order to generate a computer-based solution</p>	<p><b>Problem Definition Report</b> (As-Is model) – IPO, Context Diagram, DFD, Performance Requirements</p> <p>+</p> <ul style="list-style-type: none"> <li>- Need to know Qs</li> <li>- Research/fact-finding evidence</li> <li>- Presentation of Problems (practice presentation skills)</li> </ul>	<p>Teacher model of systems documentation</p> <p>Brainstorm – starburst</p> <p>Research – interview Qs, observation, online research, indiegogo, Kickstarter</p> <p>1-1 with teams</p> <p>Excursion</p>
<p>Individual evaluation of the process – refer to project logbooks (10)</p> <ul style="list-style-type: none"> <li>- Choose two systems modelling tools you created for the project. Evaluate one for its usefulness as for (a) developers and (b) the other, for users</li> </ul>	<p>P4.2 - Investigates a structured approach in the design and implementation of a s/w solution</p>	<p><b>Solutions Design</b> (To-Be models)</p> <ul style="list-style-type: none"> <li>- Documentation for Developers</li> <li>- Documentation for Users</li> <li>- IPO, Context Diagram, DFD, UI storyboard, structure charts, algorithms including desk checking, data dictionaries, test data and expected output,</li> </ul>	<p>Teacher model of systems documentation</p> <p><b>SWOT</b> Analysis technique</p> <p>Social issues in UI – evaluate Grok Learning (ergonomics and inclusivity – check 8.1.1)</p> <p>1-1 with teams</p> <p>1-1 with role experts esp Analysts</p>
<p>Individual evaluation of techniques and how it contributed to timely submission of products of satisfactory quality. (10)</p> <ul style="list-style-type: none"> <li>- Choose two project management techniques that helped the team as (a) whole and (b) you personally</li> </ul>	<p>P5.1 - Uses and justifies the need for appropriate project management techniques</p>	<p><b>Project Management Plan</b></p> <ul style="list-style-type: none"> <li>- Gantt chart (schedule + dependencies), Scope, Resource requirements</li> <li>- Project Logbooks (electronic)</li> <li>- File management (systems documentation strategy, backup and version control strategy)</li> <li>- Identification of suitable development approach</li> <li>- Communication plan</li> <li>- Issue/Risk Management</li> </ul>	<p>Teacher model of creating Gantt charts – outline milestones</p> <p>Skills Gap analysis – link to Need to know Qs (check 8.1.1)</p> <p>Teach agile approaches to s/w development</p> <p>1-1 with teams</p> <p>1-1 with role experts esp Project Manager</p>

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<p>Team presentation – detailed and persuasive...(make me want to invest in development – problem is worth solving and solution is viable) (8)</p> <p>(2) timely completion of products at Checkpoint times</p>	<p>P6.2 - Communicates with appropriate personnel throughout the s/w dev process</p>	<p><b>VC Presentation</b></p> <p>Problem, options, recommendation, justification</p>	<p>Checkpoint Log (2 checkpoint times)</p> <p>Pecha-Kucha? TED style?</p>
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Project Calendar

<p><b>Week 1 (5)</b></p> <p>1 – Introduce task; brainstorm ideas on problems</p> <p>2 – Teach Project Management Plan + Fact-Finding</p> <p>3 – Problem Definition</p> <p><b>Week 3 (6)</b></p> <p>1 – Excursion- Problem Definition</p> <p>2 – Class presentation: Problems (Checkpoint 1)</p> <p>3 – Teach Social issues – inform UI design</p> <p>4 – <a href="#">TED: Remix</a> + Solutions Design</p>	<p><b>Week 4 (7)</b></p> <p>1 – Solutions Design; team meeting on s/w approaches</p> <p>2 – Solutions Design + SWOT Analysis</p> <p>3 – Recommendation + Project Schedule for Implementation + Presentation Outline (Checkpoint 2)</p> <p><b>Week 5 (8)</b></p> <p>1 – <i>Public Holiday</i></p> <p>2 – Finalise</p> <p>3 - Presentation</p> <p>4 – R&amp;R</p>
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