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| Project Title: | Database monitoring and admin tool |
| Academic Area: | *Computing / Intelligent Systems / Multimedia /*  *Internet or Network Technologies / User Experience Design* |
| Project Description: *client details,*  *current context/ situation/ problem,*  *proposal for problem solution* | Client:  Andrew Smith, lecturer in Computing  Context Students currently create a number of databases using MySQL, Maria, Oracle, SQL Server etc during lab sessions and final year projects. A system is required to help staff visualise the changes that have been made to a database over time and to take regular snapshots of the datastore.  Proposal  Development of a web based software tool that can monitor databases, provide snapshots/backups and provide a visual approach to showing changes over time. |
| Specific Requirements: *(e.g. programming language or environment; specialised equipment needed etc.)* | Any server side language. Database. HTML/CSS/JS Suitable web framework to support development. |
| Practical Outcome: *(e.g. “The project will produce an ‘X’ type of system, whose functionality will be a, b, c…”)*  *Note - the client may or may not have an opinion about this.*  *It is the student’s responsibility to propose a solution with which the client agrees.* | See above. |
| Research Focus: *(Topic of literature review that will help inform the product development)* | *Connectivity protocols  Graphical modelling Server jobs and scheduling Security* |
| Preliminary Reading List: *(5 background articles/key texts/seminal research publications to kick start the project)* | 2. . 3. . 4. . 5. . |
| Ethical Considerations: (e.g. if the project involves working with vulnerable people/children students will need a police/disclosure check (DBS) be undertaken.) |  |
| Additional Info: *(e.g. can more than one student attempt the project?)* | No. |
| Client/Sponsor Details: | Name:  Contact Details: Andrew Smith  [Andrew.smith@sunderland.ac.uk](mailto:Andrew.smith@sunderland.ac.uk)  Signature: Date: |
| Student Signature: | Signature: Date: |
| Module Leader Signature: | Signature: Date: |