# CHALLENGES/ OVERSIGHTS AND MITIGATION PLAN

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| CHALLENGES/OVERSIGHTS | MITIGATION PLAN |
| * Committing of Deliverables on subversion were not done in a timely manner   Example : Diagrams were not done up fully and committed prior to coding  Didn’t know when to commit test cases and metrics | Need to enforce and clarify the deliverables for testing/debugging phase. |
| * Didn’t standardize our code commenting conventions   Example : 1 pair had more detailed code comments than the other | Agree upon a standard code commenting convention |
| * Need to decide on our expectation of the UI and when to integrate UI in the next iteration   Example: this time round was messy as there wasn’t a concrete design we wanted to achieve and the timing for UI coding wasn’t right | Ensure that functionalities are prioritized over UI/Usability. |
| Use of Different Resources for Research Example : Difficulty in the implementation of Twitter Bootstrap UI (TB) during pair programming arose from the conflict of resources used. As both coders in the pair picked up TB using different resources (self-learnt), there was a conflict in the overall design and implementation of the codes. To solve this, the team decided to) | Standardize all resources before coding. Any additional resources along the way, the coder needs to inform the whole team. |
| * Underestimation of Time Required for coding and for unit testing ( For Bootstrap )  Example : The pair programmers for the bootstrap functionality faced a challenge trying to stick to the initially agreed upon time frame when coding the Bootstrap functionality, resulting in a 2 hour over-run (25%). This was partly due to the competencies of the coders and the misjudged timing allocated due to the amount of work required for validation. Example 2 : Whilst coding, the team was unable to conduct full unit testing due to two reasons – large data resource and too little time factored. Given that the bulk of the time was spent on coding, the team was unable to test the full scale of the data resource (556mb). The entire process would have taken more than 1hour. | Do a more in-depth design and process analysis during the planning phase. |
| * Edited the code at the end of the iteration and committed it by accident   Example: Some problematic corner cases were detected sometime after debugging and whilst attempting to fix them during our free time, the changes(experimental) were committed accidentally on subversion | Remember that any subversion logs for coding should only be done so during coding sessions only. |
| * Unsure on how to add extend the timing when coding task was over-run   Example : An unnecessary additional ad-hoc task was added for the same debugging task. | Extend via pplog. Also, inform PM of the time extension |