Deliverable 4 - Dev						Deliverable 4 - Test					
Risk			Likelihood (1/5)		Contingency	Risk			Likelihood (1/5)	_	Contingency
1. Dropping class	5	5	1	- be respectful to group members - encourage group members	- have someone shadow high priority roles	Dropping class		5 5	1	be respectful to group members     encourage group members	- have someone shadow high priority roles
2. Changing requirements	4	4	1	- meet with stakeholder frequently	- chosen hosting platform: Firebase allows easy database integrations if requirements change	2. Code changes close to deadline		6 3	2	? - put in strict deadlines	- shadow dev team to prepare for what tests may be needed
3. Lag with datasets	16	4	4	use small datasets     test early with dataset to observe need of optimizations	- create a server using node.js or other server language to offload	3. Unoptimized code		6 3	2	e - testing to find the unoptimized code	- prioritize refactoring code
4. Inadequate documentation	3	3	1	review code (methods and classes) before pushing to codebase     follow strict documentation rules	- refactor for self explanatory code	4. Inadequate documentation		3 3	1	- review code (methods and classes) before pushing to codebase - follow strict documentation rules	- refactor for self explanatory code
5. Poor communication	3	3	1	- discord always available - discussions frequently	- use discord for emergency meeting	5. Poor communication		3 3	1	- discord always available - discussions frequently	- use discord for emergency meeting
Learning new tech stack (gherkin, webxr, etc.) takes up time, higher chance of mistakes	3	3	1	<ul> <li>open communication between dev and test team to share what they know and help each other out</li> <li>share where to learn this new tech stack</li> </ul>	- prepared to help each other - walk group member through their problem - take on another task	Learning new tech stack (gherkin, webxr, etc.) takes up time higher chance of mistakes		3	1	- open communication between dev and test team to share what they know and help each other out - share where to learn this new tech stack	- prepared to help each other - walk group member through their problem - take on another task
7. Scope creep	3	3		- become familiar with requirements - regular meetings with stakeholder	- communicate if you notice some scope creep and plan for redirection	7. Manual integration test plan		8 4	. 2	research automatic testing     test different automatic testing tools	- well document the manual testing - clean test code - create proper test cases with manual testing
ID2 - UPDATED SCORE											
8. Midterm exams	0			<ul> <li>know everyones schedule</li> <li>plan around midterms</li> </ul>	- have someone ready to take over or help complete task	8. Midterm exams		0		- know everyones schedule - plan around midterms	- have someone ready to take over or help complete task
9. CSPIP interviews (time conflicts amongst team)	0			- know everyones schedule - plan around midterms	- have someone ready to take over or help complete task	CSPIP interviews (time conflicts amongst team)		0 0		- know everyones schedule - plan around midterms	- have someone ready to take over or help complete task
Possible incompatability with modules/libraries (ex. Jest + Drei Text component)	3	3	1	<ul> <li>research how to set up and use libraries/modules</li> <li>test that libraries/modules work together</li> </ul>	- have someone who set up libraries/modules available to help or fix problems	Jest not performing as expected for unit tests (ex. Jest + Drei Text component)	:	3 3	1	- research how to set up and use Jest	- have someone who set up Jest available to help or fix problems
11. indexedDB may overflow browser memory	4	4	1	- research and test indexedDB if it can be used	<ul> <li>pivot to a server</li> <li>drop columns from data point instantiation before quering indexedDB</li> </ul>	11. indexedDB may overflow browser memory		4 4	1	- research and test indexedDB if it can be used	<ul> <li>pivot to a server</li> <li>drop columns from data poin instantiation before quering indexedDB</li> </ul>
12. Managing security/permissions for pipelines to avoid downtime	4	4	1	- staggered pipeline deployment - regularly update and maintain pipeline - multiple reviews before Git commit to branch	- update security/permissions as needed during downtime	12. Managing security/permissions for pipelines to avoid downtime		4	1	- staggered pipeline deployment - regularly update and maintain pipeline - multiple reviews before Git commit to branch	- update security/permissions as needed during downtime
13. Limited early testing/debugging capabilities	12	3		- test as best as you can with unit tests - robust logging to find errors - use assertions	- prioritize debugging - allow for roll backs	13. Limited early testing/debugging capabilities	1:	2 3	4	- test as best as you can with unit tests - robust logging to find errors - use assertions	- prioritize debugging - allow for roll backs
ID3 - NEW RISKS											
14. ESLint not working correctly	3	3		- run npm run lintfix command to fix any style issues before pushing any commits		14. Incosistency with style for gherkins because ESLint does not check gherkins	1	0 0	C	- follow a style guide for creating gherkins in wiki	- refactor gherkin files
ID4 - NEW RISKS											
15. IndexedDB data getting jumbled	5	5	1	- be cautious that data in a row isn't mismatched across columns, so double check the rows in the database are correct	- do some refactoring to adjust mismatching	15. Secuity risk if logger leaks sensitive information onto another server out of our control	1	5	2	t - ensure restrictions are put in place, only send to "this spot" - test with non important info first to see if logging info is lost	- send logger info to a back up location
16. Delayed implmentaion of DAL, so issue dependencies are also delayed	0	0	0	- prioritze the DAL	- prioritize implementing the DAL						
ID5 - NEW RISKS											
17. Not enough time to fix bugs found in bug party	16	4	4	- conduct extensive unit testing	- document the bugs found - resolve the most priority bugs in the limited time	16. Incomplete Happy Path Testing	1:	2 4	3	- write smoke tests for each feature/component	- prioritize smoke test
18. Not updating local branch with release branch changes frequently	12	4	3	- create an alert to update your branch with the release branch	- revert merge - check old commit histories in the PR	17. Incomplete smoke test coverage	1	6 4	. 4	- implement extensive smoke tests	- take not of what cannot be tested
19. Lots of class deadlines at end of term	16	4	4	- start working on tasks early	- have a back up person ready to take on more tasks	19. Lots of class deadlines at end of term	1	6 4	. 4	- start working on tasks early	- have a back up person ready to take on more tasks