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| Comp 3615: Yang Physics |
| Individual report |
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| **Albert Hyde** |
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# Statement of Work Done:

My wiki page contains a list of issue that we contained proof my user stories and other tasks I was in charge of and a link to the rest of the project:

<https://bitbucket.org/kartik7gupta/physics-lab-booking-project/wiki/Albert%20Hyde>

My group was placed in charge of the project to improve on the current physics’ booking system, which had been a pervious project before and required a fair amount of work to get it functioning to what our client wished. Most of the group had no previous experience with ruby and as such this was the first job we undertook. During the duration of the project I was given a number of different roles, some I kept others rotated around the group. My longest group role was that of the note taker, who took the meeting minutes and posted them to the Bit-Bucket, direct link [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/wiki/Meeting_Minutes). My other continues group role was as a programmer, where I undertook four user stories as well as pair programming and aiding team mates with their code, linked [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issues?responsible=ahyd1836) are the user stories I was directly assigned. I was also active in assignment work for the group taking part in compiling, editing and presenting the first presentation and writing the reflection for the report which can be found under the previous link. Finally I was briefly in charge of unit test and integration testing, but as the project went on it was decided to share that among the group as it was a large task, with the files being located [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/downloads).

# Extent of Work:

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| **Categories of work:** | **Summary and links:** |
| Programming | The project necessitated that all members of the group become proficient in ruby, which meant the first task was doing tutorials/reading up on ruby. The tutorial I used can be found [here](http://www.tutorialspoint.com/ruby/).  The second most difficult part of coding was the fact that we were working on pervious written code, which meant a large section of early work involved understanding what the group before did and how we can fix bugs in their code or implement new features.  **I then worked on four core user stories:**  As an admin I want students to book equally across the semester, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/66/as-an-admin-i-want-students-to-book)  As an admin, I want to be able to cancel bookings at any time for enrolled students, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/59/us-as-an-admin-i-want-to-be-able-to-cancel)  As an admin, I can set days prior a student cancel booking, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/54/sprint-1-as-an-admin-i-want-to-define-the)  As a Student, I get a confirmation when making a booking, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/25/sprint-1-student-gets-confirmation-when)  Final code review and fixing issues found  **I was also involved in the following other user stories, helping out fellow team members:**  Assisting in fixing up css to make the webpage nicer to read and follow, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/12/user-interface)  As an admin, I want to disable the option for students to cancel a booking: added in radio buttons and helped assignee with code, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/57/us-as-an-admin-i-want-to-disable-the) |
| Group processes | The group meeting minutes page was my core job for the group, I had to take notes and update it after each meeting, see [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/wiki/Meeting_Minutes).  I was placed in charge of writing unit tests and acceptance test in English for the group to follow to allow them to work towards fix but still getting to explore and fix the code, see [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/downloads/Unit%20Test%20For%20Sprint%202.docx) and [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/downloads/Sprint-1-unitTests.docx). |
| Assignment work | During the projects many assignments I had number of key roles, they include:  Compiling the presentation, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/31/sprint-1-compile-presentation)  Presenting the presentation, same as above  (user stories)  Writing the group’s reflection, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/86/extra-sprint-radio-button)  Writing user stories and work for final report, [link](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/downloads/User%20stories%20client%20report.docx?pk=469087) |

# Quality of Work:

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| QA processes | Description | Link |
| Acceptance/unit tests | These were firstly written in English to give people completing the tasks a goal for their code and were then made into code to test what had been done on the code. | As seen above these that I wrote can be seen [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/downloads/Unit%20Test%20For%20Sprint%202.docx) and [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/downloads/Sprint-1-unitTests.docx). |
| Pair Programming | Regularly we would split into pairs and work on our user stories together, this ensures someone is always looking over your code and it is thus better. | This is less able to be produced but examples can be found [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/pull-request/7/make-website-better/diff), where I worked with a group member seen on his issue [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/issue/12/user-interface) |
| Code review | The group manager had totally say over what code was merged into the main repository. This meant that any bad caught was caught before it could affect others. | As can be seen on most user stories and code, the group manager would check code and accept it or not, seen [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/pull-request/4/fixed-student-booking-error/diff) and then once it was ok accepted, seen [here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/pull-request/5/removed-error-causing-code-2/diff) |
| Integration test/review | Once all core user stories were complete the group got to together and ran through each story and the code associated with it to make sure the website could complete the task we said it could do. | This was together during the final meeting, can be found on meeting minutes page[, here](https://bitbucket.org/kartik7gupta/physics-lab-booking-project/wiki/Meeting_Minutes) |

# Reflection:

During the duration of this project I have felt that I have worked to the best of my ability to deliver the project that will suit the client’s needs. This is not to say that I did not have any stumbles or areas to improve on, just that the work I did reflects, I feel, that my strengths and success to the project outweigh my weaknesses. Below is an outline of both these strengths and weaknesses that I had during the project.

**Strengths:**

My first core asset to this project and one that I would rate a major strength was my ability to learn, write and improve on the code that the other project left behind. When this project started I had no experience in rails but I leave it with the ability to write polish code in this language. The user stories I took where thus done to a very satisfactory level and this then allowed me to help other group members with their user stories and over all make the project easier. Another core strength I felt I had during this project was my ability to work within and get along with all member of the group. I feel that my communication and handling of group tasks was something that allowed the group to better complete tasks and promoted a healthy atmosphere for the duration of the project. Finally my final strength was my skill in multi-tasking. This project and the required course work required the skill of being able to work on many different things at once and I believe that I was able to do this very well, when I was working on code and writing reports for the assignments I never let one fall behind and managed to complete both for the good of the group.

**Weaknesses:**

Well I had a number of core strengths I also had a number of weaknesses that need to be looked and evaluated so I can do better next time. The first weakness I has was the punctuality of my work, which was a problem as a number of my sections were critical to others in my group. The biggest instance of this was in my meeting minute’s page that I did for the group, some weeks would be delayed getting up and cause blocks as group members did not know what task they needed to do. A second weakness I has was the difficulty that I had with the XP methodology, the most important being its test first ideology, which was different to how I regular code, with it being more a head first approach. By the end of the project I had a much better time with the XP system but it would have been more helpful to understand it at the start.

Over all I think this project was a success and I am quite happy with the way I work on this project and feel we have delivered an excellent product to the client.