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| **Student Name: Shubham Jain** | **Student Number: A00258743** |
| **Subject: Agile Methodologies** | **Semester Number: II** |
| **Student Signature:** | **Week Number: 1** |

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| **New Knowledge/Skills acquired** | After browsing through various website I came through an idea to use sticky notes as the basis of idea for every team member so I started looking out for something on web and found retrospectives where we could manage our work. |
| **Existing Knowledge/Skills employed and improved** | Various skills such as active listening, leadership etc were employed for even the smallest tasks |
| **Context** | We decided to submit ideas on online platform funretro and then discussed about the adding it into our working agreement or not which required active listening among the team members and then me being a scrum master this sprint made final calls proving my leadership skills. |
| **My role and responsibilities** | My role for sprint 0 and 1 will be a scrum master where my first responsibility was to use retrospectives after sprints to inspect, adapt and improve team flexibility.   * I also found myself responsible for having final call on user stories. * I also am responsible for managing conflicts among the team members. * Also being a scrum master I keep track of work done by every team member after weekly scrum meeting. |
| **Gaps in my learning** | Being a scum master during sprint 0 and 1 challenges me with sheer decision making skills. I believe every decision I make will be a setback for our team and I will be solely responsible which makes me tense. So I still have to learn more about decision making. |
| **Development as Software Engineer** | After using this agile way of approach and specifically managing through retrospective every ideas to adapt and improve project sprints, I feel changes of approach in development which has opened more productive doors for my next steps. |
| **Which interactions did I value** | I valued interacting professionally with my team members and after being a scrum master my every decision is being valued which gives me some challenge but also teaches me in being responsible. |

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| **Student Name: Shubham Jain** | **Student Number: A00258743** |
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| **Student Signature:** | **Week Number: 2** |

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| **New Knowledge/Skills acquired** | After working on the working agreement I realised that not everything in a company is formal and leadership oriented, every team member has a say which can be very useful |
| **Existing Knowledge/Skills employed and improved** | Management skills and active listening, choosing the best from pool of ideas and suggestions |
| **Context** | We decided to work on working agreement, environment setup and estimation strategy for user stories this week. Being a scrum master for sprint 0 i.e planning, I applied time management skills for estimation of hours spent every day |
| **My role and responsibilities** | * Detecting flaws in working agreement and finalising points from task board suggestions * Creating and managing task board for every deliverable for Week 1-3 * Assignment of each task to team members including me. |
| **Gaps in my learning** | I still have to work on time management skills for my project. More time can be utilized and made productive. |
| **Development as Software Engineer** | Utilizing every hour and working with terms to working agreement brings corporate feeling which will be productive in long run |
| **Which interactions did I value** | Division of tasks into team members based on what they know and what they will learn was the part in valued |

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| **Student Name: Shubham Jain** | **Student Number: A00258743** |
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| **Student Signature:** | **Week Number: 3** |

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| **New Knowledge/Skills acquired** | This week was very exciting as I learned various story estimation techniques such as poker planning, bucket planning etc |
| **Existing Knowledge/Skills employed and improved** | Relative estimation rather than absolution estimation was required for user stories, my experience with handling similar projects gave me some reference on story points estimation. |
| **Context** | We had our tasks assigned and this being the last week before submitting deliverables we has to do some more hours for review of work done. One member was assigned task to research about estimation another was working on environment setup while I was working on finalising working agreement and prioritising user stories |
| **My role and responsibilities** | * Finalising working agreement * Deciding story point strategy * Prioritising user stories for sprint 1 using MoSCoW * Allocation estimation points along with team members to user stories using Poker planning techniques |
| **Gaps in my learning** | I still have to work on time management skills for my project. More time can be utilized and made productive. |
| **Development as Software Engineer** | Estimating can never be accurate if done without reference of previous projects. I learned various strategies which can bring team together and everyone feels important. |
| **Which interactions did I value** | Prioritizing user stories for sprint 1 was the most valuable task this week. I might has some misconceptions in estimating but it won’t be a setback instead I will take it as a learning for sprint 2. |

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| **Student Signature:** | **Week Number: 4** |

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| **New Knowledge/Skills acquired** | I wanted to set up a remote mysql server so that all team members can work collectively on updated instance of db which was a new skill is acquired this week |
| **Existing Knowledge/Skills employed and improved** | Normalisation and enforcing referential integrity were some database issues which were no longer a challenge due to my previous database designing experience |
| **Context** | We had nine user stories for Sprint 1 among 3 members which brings one member to one story per week. At first I wanted to register store manager but then after my team members asked me questions about database tables and naming conventions, I thought that designing and implementing complete database should be done first.  Although a lot of time was wasted because my chrome was not working properly not allowing me to login on phpMyAdmin servers. |
| **My role and responsibilities** | * Researched different remote mysql servers * Understood responsibility of backing up sql dump every day * Designed and implemented newspaper database remotely * Also integrated slack with bitbucket |
| **Gaps in my learning** | I wanted to create a mysql server through my own machine which I want to learn |
| **Development as Software Engineer** | Database designing is crucial and important. Planning it in early stage may save us a lot of time in future. Thinking about future problems in system makes me more of an Engineer |
| **Which interactions did I value** | Explaining my team members about database flow and how to connect to remote server |

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| Task | Expected Time | Actual Time |
| Remote Server Setup | 1 | 1 |
| Database Design | 3 | 2 |
| Research | 2 | 3 |

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| **Student Name: Shubham Jain** | **Student Number: A00258743** |
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| **Student Signature:** | **Week Number: 5** |

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| **New Knowledge/Skills acquired** | Getting used to slack. |
| **Existing Knowledge/Skills employed and improved** | We followed test-driven development and applied black-box testing such as equivalence class partitioning. After I develop more and more test cases, productivity increases |
| **Context** | This week I was working on login of store manager. I started by telling my team members to integrate two user stories which were created in week 1 to master to we could have same db object and user class.   * We have tried to implement mvc like approach where we have one class for object setter getters an other attributes, one for gui which would be made in later sprints and one for controller i.e methods related to controlling the flow of our data. Also one class for testing.   After integration and having required files I started working on login functionality which had only two parameters to be tested. |
| **My role and responsibilities** | * Researched about mvc pattern and how to follow that approach * Our main goal is achieving object oriented paradigm and 100% test coverage * Worked on user story for logging in store manager and delivery person * Still working on required features. |
| **Gaps in my learning** | I am still not able to gain pace when designing test methods. |
| **Development as Software Engineer** | I am giving more time that expected but still if seems productive, the work for which I have told 1 hour earlier would now be 5 hours for me and I think that is my development as a software engineer |
| **Which interactions did I value** | While integrating database class and customer/ delivery exception class we got conflicts and we managed them very efficiently. |

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| Task | Expected Time | Actual Time |
| Store manager Login | 1 | 1 |
| Testing | 2 | 2.5 |
| Research | 1 | 2 |

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| **Student Name: Shubham Jain** | **Student Number: A00258743** |
| **Subject: Agile Methodologies** | **Semester Number: II** |
| **Student Signature:** | **Week Number: 6** |

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| **New Knowledge/Skills acquired** | Encryption Techniques |
| **Existing Knowledge/Skills employed and improved** | Database data types for storing secured password. Java Skills for converting password to hash and keeping that password secured. |
| **Context** | * This was the last week for sprint 1. Each of us were still working on last user stories but a lot of code was not integrated. * I had to research a lot about how to secure password and which encryption technique to apply such as md5, SHA-1 or AES, DES etc where I chose BCrypt which has a salt prepended to hashed string which can differentiate if two users enter the same password. * Finally we shared our files and then made some changes to the code so that the same db object is shared between those files. * As a Scrum master this sprint I feel proud to showcase our work where the best techniques were applied to achieve optimal outputs. |
| **My role and responsibilities** | * Completing the login functionality for manager, admin and delivery boy * Made reusable landing page for different users. * Altering tables to match password encryption policy * Integrating whole code so that each block fits where it should be. |
| **Gaps in my learning** | We did not yet implement various white box and GUI testing methods which we wish to learn and implement in later sprints. |
| **Development as Software Engineer** | We worked efficiently managing times and respected other team member’s way of writing code. Working on the same thing at the same level together has made us realize what we can achieve as a team. |
| **Which interactions did I value** | While searching out for a proper encryption techniques and comparing them. Finally debugging my code to see what data type is stored and passed was the most valuable part I did. |

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| Task | Expected Time | Actual Time |
| Logins | 1 | 1 |
| Landing Page | 1 | 1 |
| Integration | 1 | 2 |
| Testing | 1 | 1 |
| Research | 2 | 2 |

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| **Student Signature:** | **Week Number: 7** |

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| **New Knowledge/Skills acquired** | Code Coverage using eclemma and tracking |
| **Existing Knowledge/Skills employed and improved** | We applied our previous black box testing knowledge to achieve results for white box testing tools for the work done in previous sprint. |
| **Context** | We had 6 user stories in sprint 2, so we decided to improve our existing code and testing approach before we move on towards writing new product code.   * We tried eclemma tool and found out that our coverage percentage was very less, shocking in fact. * Trying to found out possible missing test cases I created my own branch for the first time in this project and started working on test cases of CRUDTEST.java |
| **My role and responsibilities** | * Research about tracking chart and provide useful information about work done on my part and which user story requires more work. * Work on CrudTest.java test class to achieve the maximum coverage possible and try finding potential bugs in our code |
| **Gaps in my learning** | I still don’t understand how I will be able to achieve coverage for some scenarios, but I guess we will have to create more test classes. |
| **Development as Software Engineer** | I am giving more time that expected but still if seems productive, the work for which I have told 1 hour earlier would now be 5 hours for me and I think that is my development as a software engineer |
| **Which interactions did I value** | While we ran our code coverage for the first time the entire team was together and when we saw our results despite of us believing our code was tested with 100% coverage in mind, we couldn’t be more disappointed but yet we divided work to improve previous test cases without getting to much worried about a lot of refactoring. |

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| Task | Expected Time | Actual Time |
| CrudTest testcases | 1 | 1 |
| Testing and coverage | 2 | 2 |
| Research | 1 | 2 |

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| **Student Signature:** | **Week Number: 8** |

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| **New Knowledge/Skills acquired** | None |
| **Existing Knowledge/Skills employed and improved** | Blackbox and white box testing techniques. Application of test driven development. |
| **Context** | I was allotted 3 user stories to work on. dependent so I tried to make a common reusable function to fetch delivery docket which will be used to print data for delivery boy and update delivery status. |
| **My role and responsibilities** | * I was responsible to work on delivery panel’s update delivery docket, download delivery docket. * Follow test driven development to achieve 100% code, branch coverage. |
| **Gaps in my learning** | I think I can improve in predicting exact test cases before writing product code |
| **Development as Software Engineer** | We work in a timely manner, update progress on easy backlog, have a definition of done which I brings out the software. |
| **Which interactions did I value** | While working on new requirements other team members talked about changing database tables which was a task I was responsible for, so after explaining them how to use the database tables to fulfil requirements which proved my planning was right was the interaction I valued. |

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| Task | Expected Time | Actual Time |
| View delivery docket | 1 | 1 |
| Testing and coverage | 2 | 2 |
| Research | 1 | 2 |

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| **Student Name: Shubham Jain** | **Student Number: A00258743** |
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| **Student Signature:** | **Week Number: 9** |

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| **New Knowledge/Skills acquired** | None |
| **Existing Knowledge/Skills employed and improved** | Blackbox and white box testing techniques. Application of test driven development. Also knowledge of itext library to print to pdf |
| **Context** | I was allotted 2 user stories to work on. I created 3 functions in this entire sprint which were related to each other as they had similar sql queries. |
| **My role and responsibilities** | * I was responsible to work on delivery panel’s update delivery docket, download delivery docket. * Follow test driven development to achieve 100% code, branch coverage for my functions. * Download delivery docket should contain name contact number of delivery person and details of product for delivery. * After that delivery person should be able to update delivery status of every order. |
| **Gaps in my learning** | I think I am now capable to write productive code using tdd without any problems. I don’t see any gaps in my learning this week. |
| **Development as Software Engineer** | We work in a timely manner, update progress on easy backlog, have a definition of done which I think brings out the software. Engineer within us. |
| **Which interactions did I value** | Me and Tarun were working on DbConecction.java class where we faced a conflict. At first due to a lot of code it seemed easy to give my functions to tarun where he could commit them.  But I decided to manage conflict and looked at the code using merge tool until it was successfully done. |

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| Task | Expected Time | Actual Time |
| Download delivery docket | 1.5 | 1 |
| Update Delivery docket | 1.5 | 1.5 |
| Testing and coverage | 1 | 1 |
| Research | 1 | 1 |