Notes from meeting between GCE DPI and Checktronix

# Meeting Details

GCE DPI Students

Checktronix – Uday

10 Jun 2016 10:00 AM – 02:00 PM at the Computer Lab, Dawn Matric School.

1. Uday talked about the overall motivation for the program.
2. After an initial introduction, we discussed possible things to do
3. Possible things to do were
4. Trying out the lab exercises for the next semester
5. Trying out the exercises that are part of the MIT 6.01 and MIT 6.02 course
6. Doing a sample projects
7. We listed out
8. Goals for the exercise
   1. Introduce students to current tools used in the industry
   2. Introduce students to the various phases of actual software project implementation
   3. Give the chance to students to learn something on their own
   4. Develop the habit of reading/learning about the state of art in students
   5. Develop communication / presentation skills of students
   6. Help plan ahead for their career

Students

1. Want to learn new things
2. Learn about software companies
3. Get some new ideas
4. Want to plan for the future. Know what is needed by software companies
5. Want to learn new programming language
6. To know about start of art technologies

New tools / technologies the team would try out

1. Agile development process
2. Continuous Integration / Deployment
3. Version Control Tools
4. Build Tools
5. Responsive UI design
6. REST Style design
7. Command Query Responsibility Segregation
8. Framework based design
9. Modular design
10. Service oriented architecture / design
11. Modern C++/Java/C#
12. Perl/Python/Java Script
13. Analytics - Big Data Analysis
14. No SQL databases - MongDB, Cassandra, Riak
15. Containers

# Development Process

1. User Stories -> User Experience -> Test Case Design -> Design -> Implementation -> Deployment
2. Possible projects
   1. Student/College Information Management System
      1. Time table planning
      2. Class room allocation
      3. Class Schedule Information
      4. Reminders about assignments / upcoming tests
      5. Stakeholders
         1. College Management
         2. Students
         3. College Administrative / Non Teaching Staff
   2. HR Leave Tracking System
      1. Yearly leave management
      2. Employee leave tracking
      3. Leave Approval
      4. Stakeholders
         1. Employee
         2. HR coordinator
         3. Accounts Person
         4. Supervisor
         5. Project Manager

In general we look at different alternatives. Consider the pros and cons of the alternatives and choose what we think is the right solution in the current context.

Things decided.

1. For every meeting someone will act as the official minutes preparer. For the first meeting Uday will do it. For next meeting Tamilselvan do it. After that it will go around the group
2. We are doing the HR leave tracking application
3. As the first task, each person will learn about a new tool and give a demonstration to the rest of the team
4. The following are the responsibilities of the various team members.
   1. Veeramani - Git / Version Control
   2. Tamilselvan - Web Service / API design / python import, export
   3. Monica - Web Service testing - Rest style web service testing using PostMan, Jmeter?
   4. Dhivya - Selenium based testing of the Web UI / Mobile UI
   5. Vignesh - Continuous integration of the system - Jenkins
      1. 3 deployable objects - Web Application, Web Service, APK for Android
   6. Kumaresan - Angular.js, Cross platform dev - Xamarin?

We will meet every other day. A mentor will be available 9:00-10:30 on the days. Saturdays - can be full time if the team wants

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| --- | --- | --- | --- |
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# Action Items

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| --- | --- | --- | --- | --- |
| **S.No** | **Task Description** | **Person Responsible** | **Target Date** | **Notes** |
| 1 | Send meeting minutes to all the team members | Uday |  |  |
| 2 | Send references to resources to team members | Uday |  |  |
| 3 | Send information about google group to the team members | Uday |  |  |
| 4 | Think about what are the things we will do in the next 3 weeks | All |  |  |
| 5 | Think about some area of application of technology in a domain familiar to you | All |  |  |
| 6 | Setup local machine for development work in the lab for students without machines | Uday |  |  |
| 7 | Find cost of an Azure or some other dev server through which these applications can be hosted | Silambarasan |  |  |
| 8 | Get student accounts on Azure or Google Apps to host this | Silambarasan |  |  |
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Next meeting scheduled for Monday 10 Jun 2017, 9:00 AM. If there is any change in the plan Uday will let everyone know.