Career guidance web portal

Project Proposal

IT7x01 Project

Project Code: 116-T2/2015-AKL

**Authors**

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Submission date: 12 June 2015

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# Revision History

|  |  |  |  |
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| **Date** | **Description** | **Author** | **Comments** |
| 05/05/2015 | Draft Proposal | Pasindu Wijesekera,  Kushan Wickramasinghe | First draft version |
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|  |  |  |  |

# Document Approval

The following proposal has been accepted and approved by the following:

|  |  |  |  |
| --- | --- | --- | --- |
| **Signature** | **Printed Name** | **Title** | **Date** |
|  | Pasindu Wijesekera | Developer | 12/05/2015 |
|  | Kushan Wickramasinghe | Developer | 12/05/2015 |
|  | Jagath Siri Pushpakumar | Client | 12/05/2015 |

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# 1.0 Project summary

|  |  |
| --- | --- |
| Project Code | 116-T2/2015-AKL |
| Project name | Repository tool for Requirement Process Management |
| Prepared by | Pasindu Wijesekera,  (Developer) – [danuddara@live.com](mailto:danuddara@live.com)  Kushan Wickramasinghe  (Developer) – [kushaninfo@gmail.com](mailto:kushaninfo@gmail.com) |
| Project start date | 02-05-2015 |
| Project end date | 25-08-2015 |
| Project type | Web site |

## Project objective

Our main objective is to provide a web portal to guide students who have completed A/Ls or O/Ls to their desired career path by focusing on their current state of qualification level. The web portal will provide the information of institutes/ universities which are hosted in local and foreign countries which will allow archiving their main goal such as diploma, degree, etc. which will give them a career boost. Also agents who are representing foreign universities can include their courses in this web portal.

## Project Scope summary

The web portal includes subscription module for the institute, agents and universities that are located in Sri Lanka and overseas. The institutes will be able publish their course details, minimum entry requirements for each course and the course fee.

The system should be able to extract/filter available career path based on the user preferences and entered qualifications.

## 

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Position | Project Role | Contact Information |
| Jagath Siri Pushpakumar | Client | Sponsor | jagathsiri@xtra.co.nz |
| Justin Joseph | Project coordinator | Project coordinator | justin@whitireia.ac.nz |
| Rohini Dutt | Lecturer | Supervisor | rohini.dutt@whitireia.ac.nz |
| Pasindu Wijesekera | Developer | Developer | danuddara@live.com |
| Kushan Wickramasinghe | Developer | Developer | kushaninfo@gmail.com |

# 2.0 Project background

## 2.1 Problem/Opportunity

Sri Lanka has 15 public universities and only around 9% of students who sites for the GCE A/L examination can to obtain to universities at present. This examination is highly competitive and only about 58% of the candidates qualify for the university admisssions.it shows the 91% of the students do not have a clear path to continue their formal education due to limited opportunities in the public universities.

According to the university grant commission statics in Sri Lanka 2012, more than 79% of students who are eligible but not selected to enter higher education institutions compared to other developing countries, the number of students enrolled in tertiary education is extremely low in Sri Lanka.

Those who cannot enter public universities have options for pursuing higher education such as National education path, Private education path, External degree path, Professional qualification path and Vocational education path which are not addressed to the students properly. There is no portal to guide them in the correct path.

# 3.0 Project objectives & scope

## 3.1 Project objectives

Our main focus is to provide guidance for students who have completed A/Ls or O/Ls to Their desired career path by focusing on their current state of qualification level. We will provide the information of institutes/ universities which are hosted in local and foreign countries which will allow archiving their main goal such as diploma, degree, etc. which will give them a career boost. Also agents who are representing foreign universities can include their courses in this site.   
  
Our main target is to increase the number of graduates that comes out from institutes/universities and to improve the tertiary education in Sri Lanka.

This site should guide a person who haven't got the minimum requirements to enter an education path but still shows his way to archive his/her dream.

## 3.2 Scope

This section describes the scope of the career guidance web portal which will include its requirements.

The following sections are discussed further in this section.

* Project scope
* Product scope

### 3.2.1 Project scope

This project will focus on delivering a web portal which include subscription module for the institute, agents and universities that are located in Sri Lanka and overseas. The institutes will be able publish their course details, minimum entry requirements for each course and the course fee.

### 3.2.2 Product scope

The portal will enable to enter students current qualification (ex: A/L or O/L results) to the system and choose the qualification level (ex: Degree, Training) that the student want to archive. The system will then guide the next steps that need to follow in order to approach students’ target. This will list all the coursers available for each step.

Universities and agents should be able to make their own profile by subscription. Also add the course details and minimum entry requirements. This is process is applicable for foreign universities as well.

Agents who are associated with foreign universities will be able to publish their advertisements. The agents will be filtered according to the country and university.

## 3.3 Deliverables

Following are key deliverables of web portal.

**Student**

* Advance filtering for course details.
* Display filter options based on the qualification levels and user preferred education course and category.
* Display career guidance paths to archive what student have included.

(ex: The path to obtain a Degree while having no A/L results, so he'll be able to choose private education sector, by doing a foundation course or re-sit the exam and obtain minimum qualification.) .

* Save option of his/her preferred institute or course.
* Save entered qualifications for the student.

**Institutes/Universities**

* Verification process
* Subscribe to profile
* Manage university/institute details
* Manage course details with minimum entry requirements
* Add Links to the course details
* Check The Hit count on Search.
* Payment module for subscription.

**Agents**

* Verification process
* subscribe to profile
* Manage universities and country details
* Publish advertisements.

**Website**

* Advertising spaces
* Responsive
* efficiency
* Loading speed should in a high level.

# 4.0 Initial consultation

This section includes the details about the initial discussions that occurred during the pre-initiating phase of this project. During this period the team was able to gather the business requirements of this project.

The following table shows the dates of the meetings as well as the discussions happened and the outcome.

Table 1: Initial consultation

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Person name | Project role | Discussions | Outcome | Communication medium |
| 10/05/2015 | Jagath pushpakumar | Client | Initial discussion of the project | Get a high level idea of the project.  Research about the business problem | face to face |
| 14/05/2015 | Jagath Pushpakumar | Client | Discussion of main problems of business concept and highlight the core functionalities of the system. | Requirement specification | Face to face |
| 20/05/2015 | Jagath Pushpakumar | Client | Discussion about the business proposal | Submit draft proposal for acceptance | Email |
| Justin joseph | Project Coordinator | Face to face, email |
| 04/06/2015 | Rohini Dutt | Supervisor | Discussion about the project proposal and meetings | Understanding the project proposal requirements | Face to face |

# 5.0 Communication plan

The following section describes the communication methods, objectives and deliverables in different phases at each stage.

Table 2: Communication plan

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Communication Type** | **Objective of Communication** | **Medium** | **Frequency** | **Owner** | **Audience** | **Deliverables** |
| Kick-Off Meeting | Initial meeting of project Team, Project objectives and management approach | Face to face | Once | Project manager | Project Sponsor, Team, | Agenda, Initial meeting project team, project objectives and management approach |
| Sprint Planning Meeting | Plan and outline the deliverables of a Sprint. | Face to face | Each sprint | Project manager | Project team | Meeting minutes,  Weekly work plan |
| Sprint Review Meeting | Check the overall progress of sprint | Face to face | As needed | Project manager | Project team | Meeting minutes |
| Daily Scrums | daily meetings to for updates | Online/ Face to Face | Daily | Project manager | Project team | Meeting minutes |
| Scrum Reports | Report the status of the projects | Email | Weekly | Project manager | Project Sponsor, Project team, Stakeholders, | Reports,  Project weekly record ,  Individual project journal |

# 6.0 Methodology

The key factor of this project is to provide quality product. The methodology selected for this project is SCRUM. The project will be divided in to sprints. At each phase the team members will meet up for reviews and daily scrum which helps in monitoring the project progress.

Projects backlogs will be created by the product owner. Sprint backlogs will be created at each sprint by scrum master. Each backlog will have its start date and end date. The daily scrum meetings will make sure that the information/problems are communicated between the team members and necessary actions will be taken to complete the task. It can be rework or the task can be completed.

At the end of each sprint, the tasks will be finalized and marked as completed upon testing.

|  |  |
| --- | --- |
| Product Owner | Jagath Siri Pushpakumar |
| Scrum Master | Pasindu Wijesekera |
| Team members | Kushan Wickramasinghe, Pasindu Wijesekera |



Figure 1: Scrum Iterations at each sprint (James, 2015)

# 7.0 Resourcing and budgeting

The main resources that used to develop this web portal are based on ASP.NET MVC framework.   
The students need to acquire more knowledge regarding the MVC framework. The resources and technology mentioned below will be used during this project phase and AZURE web server will be used to host the web site.

Since this is done by the students, the development cost will be free. However the sponsor needs to purchase the need resources to host the site.

* MS AZURE
* DOMAIN NAME

## 7.1 Technology

Following technology requirements will be needed for this system. The software tools will be downloaded from Dreamspark account that provided to students at polytechnic which are free.

* ASP.NET/C# will be used to develop this application.
* HTML5,CSS3,jQuery, AJAX, XML
* MS AZURE
* Repository tools
* Visual Studio 2012
* MSSQL server 2012

## 7.2 Budget

The following table includes the costs related to this project. The project will require a payment gateway at a later stage which will be provided by the project sponsor.

Table 3: Budget

|  |  |
| --- | --- |
| Resource | Budget |
| MS AZURE SERVER | $153/month |
| Domain Name (.Lk domain) | $35/year |
| Total cost per year | $1871 |

# 8.0 Project plan

The project plan includes all the phases, iterations and milestones that are included in this project.

This will include the work breakdown structure, iterations, milestones and time estimates.

## 8.1 Work breakdown structure

Tasks are identified and distributed among respective individuals. The Development Methodology chosen is SCRUM. This will include creating Product Backlog. Picking a user story and creating sprint backlogs. After this process a sprint backlog tasks will be in three stages. Those are “Not started”, “In processing” and “Completed”. These processes iterates through each sprint.

Table 4: Work breakdown structure (WBS)

|  |  |
| --- | --- |
| 1. **Project Initiating** | * 1. Identify the scope   2. Develop the project plan   3. Requirements discovery and documentation   4. Project overview presentation |
| 1. **Design and planning** | * 1. System Design      1. System Design Specification      2. Platform Verification |
| * 1. Planning      1. Project ramp up      2. Team Kick off Meeting |
| 1. **Development** | * 1. Progress Review Report 2   2. Sprint 1 : Interface design –Phase 1      1. Requirement sign off for sprint 1      2. Master page design      3. Student login page      4. Search filter page      5. Logo      6. Home page      7. Sign up pages- institute/agents      8. Profile pages – institute/agents         1. Add course details page         2. Add institute/organization details         3. Add verification page   3. Sprint 2 – Interface design – Phase 2      1. Requirement sign off for sprint 2      2. Admin pages         1. List institute/agents         2. Edit/approve/block/reject institute/agents         3. Edit/Delete course details         4. Add advertisement banners         5. Add/edit categories      3. Institute Filter page         1. Design search filter         2. Career guidance pages         3. Filter results page         4. Filter results based on the career path         5. Filer results based on the agents and location of institute   4. Sprint 3 – Database Design      1. Requirement sign off for sprint 3      2. Database design      3. Database implementation   5. Sprint 4 – Application Development – Phase 1      1. Requirement sign off for sprint 4      2. Application Design      3. login module development      4. Sign up module for institutes      5. Implement add course details method      6. Implement add institute/organization details method      7. Implement verification process   6. Progress Review Report 2   7. Sprint 5 – Application Development – Phase 2      1. Requirement sign off for sprint 5      2. Sign up module for Agents      3. Implement add Agent details method      4. Implement add institute/organization details method      5. Implement verification process      6. Implement add advertisement modules   8. Sprint 6 – Application Development –Phase 3      1. Requirement sign off for sprint 6      2. Advance Search based on the filters.      3. Show all paths available with counts      4. Filter results based on a career path      5. Simple search without minimum requirements search filter   9. Sprint 7 – Application Development – Phase 4      1. Requirement sign off for sprint 7      2. Implement save search filter.      3. load saved filters      4. Save preferred institutes      5. Create account using an email.   10. Progress Review Report 3   11. Sprint 8 – Application Development – Phase 5       1. Requirement sign off for sprint 8       2. Create notification of profile expiration       3. Add payment pages |
| 1. **Testing and Defect Fixing** | * 1. Integration Testing   2. Defect Fixing   3. Release Final Build |
| 1. **Deployment** | * 1. Configure Test Server   2. Deploy Build |
| 1. **Progress Review Report 4** | |
| **7. UAT** | 7.1 Testing  7.2 UAT Defect Fixing  7.3 Release Final Build |
| **8. Poster submission**  **9. Product assessment**  **10. Practise presentation**  **11. Final presentation** | |

## 8.2 Iterations and time estimates

The following section includes detailed description of the project iterations with scheduled starting and ending dates that occurs during the phases of project.

Table 5: Project iteration 1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 1 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 2/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** |  | | | | |
| **Iteration Name** | Project Initiating | | | | |
| **Iteration Completion Date** | 18/06/2015 | | | | |
| **Iteration Objective** | Requirement gathering and defining scope for project. | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Define scope of the project | | | | |
| 2. | Project Plan | | | | |
| 3. | Requirement specification | | | | |
| 4. |  | | | | |
| 5. |  | | | | |

Table 6: Project iteration 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 2 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 18/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 2.1 | | | | |
| **Iteration Name** | System Design | | | | |
| **Iteration Completion Date** | 25/06/2015 | | | | |
| **Iteration Objective** | Complete the system design diagrams and document it. | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | System Design Specification | | | | |
| 2. | Platform verification | | | | |
| 3. |  | | | | |
| 4. |  | | | | |
| 5. |  | | | | |

Table 7: Project iteration 3

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 3 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 25/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 2.2 | | | | |
| **Iteration Name** | Planning | | | | |
| **Iteration Completion Date** | 01/07/2015 | | | | |
| **Iteration Objective** | Ramp up for technical knowledge areas and have the initial meeting. | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Learn the new framework. | | | | |
| 2. | Initial meeting of the project. | | | | |
| 3. |  | | | | |
| 4. |  | | | | |
| 5. |  | | | | |

Table 8: Project iteration 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 4 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 08/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.2 | | | | |
| **Iteration Name** | Sprint 1 : Interface design – phase 1 | | | | |
| **Iteration Completion Date** | 12/06/2015 | | | | |
| **Iteration Objective** | Design the web pages | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Page designs for home page of the website | | | | |
| 2. | Login form page | | | | |
| 3. | Search filter page | | | | |
| 4. | Profile pages for institutes and agents | | | | |
| 5. |  | | | | |

Table 9: Project iteration 5

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 5 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 12/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.3 | | | | |
| **Iteration Name** | Sprint 2 - Interface design – phase 2 | | | | |
| **Iteration Completion Date** | 18/06/2015 | | | | |
| **Iteration Objective** | Design the web pages for Admin pages and institute pages | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | List agents and institute page | | | | |
| 2. | CRUD page for agents | | | | |
| 3. | CRUD page for course details | | | | |
| 4. | CRUD page for advertisements | | | | |
| 5. | CRUD page for categories | | | | |
| 6. | Design search filter for institutes | | | | |
| 7. | Career guidance pages | | | | |
| 8. | Filter result page | | | | |
|  |  | | | | |

Table 10: Project iteration 6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 6 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 18/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.4 | | | | |
| **Iteration Name** | Sprint 3 – Database design | | | | |
| **Iteration Completion Date** | 24/06/2015 | | | | |
| **Iteration Objective** | Create the database design and implement the database | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Database design | | | | |
| 2. | Database implementation | | | | |
|  |  | | | | |

Table 11: Project iteration 7

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 7 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 24/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.5 | | | | |
| **Iteration Name** | Sprint 4 – Application Development – Phase 1 | | | | |
| **Iteration Completion Date** | 9/07/2015 | | | | |
| **Iteration Objective** | Create the application design diagrams and implement the methods required for the application | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Application design | | | | |
| 2. | Login module development | | | | |
| 3. | Sign up module for institutes | | | | |
| 4. | Add course details methods | | | | |
| 5. | Add institute/ organization details methods | | | | |
| 6. | Implement verification process | | | | |

Table 12 : Project iteration 8

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 8 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 9/06/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.7 | | | | |
| **Iteration Name** | Sprint 5 – Application Development – Phase 2 | | | | |
| **Iteration Completion Date** | 22/07/2015 | | | | |
| **Iteration Objective** | Implement the methods required for the application | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Sign up module for agents | | | | |
| 2. | Add institute/agents details methods | | | | |
| 3. | Implement add advertisement module | | | | |
| 4. | Implement verification process | | | | |
| 5. |  | | | | |
| 6. |  | | | | |

Table 13: Project iteration 9

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 9 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 22/07/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.8 | | | | |
| **Iteration Name** | Sprint 6 – Application Development – Phase 3 | | | | |
| **Iteration Completion Date** | 29/07/2015 | | | | |
| **Iteration Objective** | Implement the methods required for the application | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Advance search based on the filters | | | | |
| 2. | Show the career guidance path with counts | | | | |
| 3. | Filter result based on the career path | | | | |
| 4. | Simple search without minimum requirements | | | | |
|  |  | | | | |
|  |  | | | | |

Table 14: Project iteration 10

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 10 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 30/07/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.9 | | | | |
| **Iteration Name** | Sprint 7 – Application Development – Phase 4 | | | | |
| **Iteration Completion Date** | 05/08/2015 | | | | |
| **Iteration Objective** | Implement the methods required for the application | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Save search filter | | | | |
| 2. | Load save filter | | | | |
| 3. | Save preferred institutes | | | | |
| 4. | Create student account | | | | |
|  |  | | | | |
|  |  | | | | |

Table 15: Project iteration 11

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 11 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 05/08/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 3.11 | | | | |
| **Iteration Name** | Sprint 8 – Application Development – Phase 5 | | | | |
| **Iteration Completion Date** | 07/08/2015 | | | | |
| **Iteration Objective** | Implement the methods required for the application | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Notification of profile expiration | | | | |
| 2. | Add payment pages | | | | |
|  |  | | | | |

Table 16: Project iteration 12

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 12 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 07/08/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 4 | | | | |
| **Iteration Name** | Testing and defect fixing | | | | |
| **Iteration Completion Date** | 13/08/2015 | | | | |
| **Iteration Objective** | Application testing and fixing defects | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Integration testing report | | | | |
| 2. | fix Defects | | | | |
| 3. | Release final build | | | | |

Table 17: Project iteration 13

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 13 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 07/08/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 5 | | | | |
| **Iteration Name** | Deployment | | | | |
| **Iteration Completion Date** | 13/08/2015 | | | | |
| **Iteration Objective** | Deploy the final build | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Configure test server | | | | |
| 2. | Deploy build application | | | | |
|  |  | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Iteration 14 | | |  | |  |
| Project | | | | | |
| Project Number | | 116-T2/2015-AKL | | | |
| Project Name | | Career guidance web portal | | | |
| Student Name | | Student ID | |
| Pasindu Wijesekera | | 21403205 | |
| Kushan Wickramasinghe | | 21403253 | |
|  | |  | |
| Iteration Date | | 17/08/2015 | |
| Iteration Detail | | | | | |
| **Iteration Number** | 7 | | | | |
| **Iteration Name** | UAT | | | | |
| **Iteration Completion Date** | 18/08/2015 | | | | |
| **Iteration Objective** | Fixing the defects by the results of UAT | | | | |
| **Iteration constraints and risks** |  | | | | |
|  | **Iteration Products/Outcomes** | | | | |
| 1. | Test result | | | | |
| 2. | Fix defects | | | | |
| 3. | apply changes to the application | | | | |

# 9.0 Risk analysis, contingency and mitigation

This section will include the risks that are involved with this project and its impact. The following table include risk, risk description, impact, probability, contingency and mitigation.

Table 18 : Risk analysis

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Risk #** | **Risk** | **Risk description** | **Impact** | **Probability** | **Contingency** | **Mitigation** |
| 1. | System software corruption/ loss | The team will be working on developments as well as documentation. The documents and system code may get corrupted. | High | medium | restore copies | Using SVN system.  Keeping copies and version controlling. |
| 2. | Lack of skills in MVC | Learning the new MVC framework in .NET and applying it to the system accurately. | Medium | Medium | Get help from expertise. | Doing tutorials and making prototype of the system. |
| 3. | Hosting in AZURE | The hosting should be configured correctly. | High | medium | Get help from expertise. | Following tutorials and practising in a testing server. |
| 4. | Database corrupted | Database can be lost due to software corruption | High | Low | Recovering ,  Restoring backups | Create and keep the backups in repository. |
| 5 | Absence of Team member | The absence of team member can happened due to personal issue or illness. | High | Low | Check technical documentation.  Work load should be distributed among other team members. | Recording technical documentation of the project that is completed by the team member.  Knowledge transferring. |

# 10.0 Skills analysis

This section conduct a skills analysis of team member’s skills and the gaps that need to be improved in order to complete this project. The following table gives a well categories analysis of skills, team current skills and how the team will bridge the skill gap if there is any.

Table 19: Skills analysis

|  |  |  |  |
| --- | --- | --- | --- |
| **General** | **Current skill level** | **Required skill level** | **Gap** |
| Project management | 6 | 7 | Watch online tutorials of handling SCRUM methodology. |
| Technical documentation |  |  |  |
| **Technical** |  | | |
| Database | 8 | 8 |  |
| MVC architecture | 6 | 8 | Need to follow MVC tutorials on .NET platform. |
| Template design | 8 | 8 |  |
| Web programming – ASP.NET | 9 | 9 |  |
| jQuery AJAX with .NET | 6 | 8 | Need to follow tutorials to embed jQuery to .NET methods/ event handlers. |
| JSON | 7 | 8 | Tutorials for Handling JSON objects with ASP.NET MVC |
| Server Configuration | 5 | 8 | Practise online with AZURE |

# 11.0 Project agreement

## Student Team Project Agreement

WHITIREIA COMMUNITY POLYTECHNIC

FACULTY OF BUSINESS AND INFORMATION TECHNOLOGY

STUDENT(S) PROJECT AGREEMENT

**The Parties**

This Student(s) Project Agreement (the “Agreement”) is made between:

a) Whitireia Community Polytechnic Faculty of Business and Information Technology (the “Faculty”);

b) The nominated computing student(s) (the “Student(s)”) (as listed under section 6); and  
Mr.Jagath siri Pushpakumar the proposed Client.

BACKGROUND

a) As part of an established course of study at the Faculty, Bachelor of Information Technology students take a course module IT301, in which the Student(s) completes a project (“the Project”) with the Organisation on the basis set out in this Agreement.

b) The Organisation agrees to allow the Student(s) access to its premises if needed to undertake that Project on the basis set out in this Agreement.

c) The Faculty is satisfied that the Organisation is suitable for the Student(s) Project.

TERMS

**1. Effective Date**This Agreement shall be effective as of 02/06/2015 until 25/06/2015

**2. Undertakings**

2.1 The Organisation has accepted the Student(s) and agrees to allow that Student(s) access to its premises as needed.

2.2 The Organisation agrees to be responsible for meeting the requirements of its statutory obligations, eg Health and Safety in Employment Act, Human Rights Act, etc., for the Student(s).

2.3 The Student(s) will use his or her best efforts in undertaking the Project for the Organisation, as mutually agreed by the parties and set out in a separate written proposal which will form part of this Agreement.

2.4 The Organisation understands that the primary reason for the Project is education and advancement of knowledge, and, consequently, the Project must further that purpose.

2.5 Neither the Faculty nor the Student(s) guarantee specific results and the Project will be undertaken only on a best efforts basis.

2.6 The Student(s) agrees to submit his or her IT301 report to his or her nominated supervisor at the Organisation.

**3 Copyright, Patents, Trade Marks and other Intellectual Property Rights**

The Faculty and Student(s) each acknowledge that all copyright, trade marks, trade names, patents and other intellectual property rights belonging to the Organisation that the Faculty and Student(s) come into contact with are and shall remain the sole property of the Organisation, and no claim or right to them is to be made by or created in the Faculty or Student(s).

**4 Confidential Information**

4.1 The parties may wish, from time to time, in connection with the Project undertaken under this Agreement, to disclose certain information of a confidential nature (“Confidential Information”) to each other. Each party will use reasonable efforts to prevent the disclosure of any of the other parties Confidential Information to third parties for a period of three (3) years from receipt of that information, provided that the recipient party’s obligation shall not apply to information that:

a) is not disclosed in writing or reduced to writing and marked with an appropriate confidentiality legend or designated in writing as Confidential Information within thirty (30) days of disclosure;

b) is already in the recipient party’s possession at the time of disclosure;

c) is or later becomes part of the public domain through no fault of the recipient party;

d) is received from a third party having no obligations of confidentiality to the disclosing party;

e) is independently developed by the recipient party; or

f) is required by law or regulation to be disclosed.

4.2 Application may be made to any party for written permission to use Confidential Information. No party shall unreasonably withhold such permission.

4.3 If permission to use Confidential Information is withheld by a party, then that party will state the reason or basis for refusal of permission.

**5 Intellectual Property Rights**

5.1 The parties agree that both the Faculty and the Student(s) may use the intellectual property rights that are created as a result of the Project work undertaken by each Student for the Organisation for portfolio purposes to promote the Faculty and/or the Student(s).

5.2 The following intellectual property rights are agreed between the parties:

*(Please indicate which option is agreed upon by placing a tick in the appropriate box and deleting the options that do not apply.)*

**Option 1 – Organisation Ownership:**

All intellectual property rights that are created as a result of the Project work undertaken by the Student(s) for the Organisation shall vest absolutely in the Organisation.

**Option 2 – Student(s) Ownership:**

All intellectual property rights that are created as a result of the Project work undertaken by each Student for the Organisation shall vest absolutely in each respective Student. Each Student hereby grants the Organisation, and where more than one Student has been involved in the Project, the other Student(s) are granted, a perpetual non-exclusive licence for that intellectual property.

**Option 3 – Split Ownership**

There shall be two types of intellectual property:

* + Custom property (being intellectual property specifically developed by the Student(s) for the Organisation)
  + Generic property (being any intellectual property not specifically developed by the Student(s) for the Organisation)

The Custom property will be vested solely in the Organisation whereas Generic property will vest solely in each respective Student. Each Student hereby grants the Organisation and where more than one Student has been involved in the Project, the other Student(s), a perpetual non-exclusive licence for that Generic property.

**Option 4**

*(Please attach here any other intellectual property rights agreed between the parties)*

1. **Signatures**

**Project Number:** 116-T2/2015-AKL

**Project Name: Career guidance web portals**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Role** | **Name** | **Signature** | **Date** |
| Project Client/ **Organisation Representative** | Client | Jagath siri Pushpakumar |  |  |
| Representative of Whitireia Community Polytechnic/ **Faculty Representative** | Project coordinator | Justin Joseph |  |  |
| Student 1 | Developer | Pasindu Dunuddara Wijesekera |  |  |
| Student 2 | Developer | Kushan Sameera Wickramasinghe |  |  |

# 13.0 References

James, M. (2015, 05 03). *Scrum Reference Card.* Retrieved from http://scrumreferencecard.com/: http://scrumreferencecard.com/scrum-reference-card/

# 14.0 Appendix

## 14.1 Appendix 1: Project assessment criteria

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Appendix C4 - Project Product Assessment | | | | |  | |
| Project | | | | | | |
| Project Number | |  | | | | |
| Project Name | |  | | | | |
| Student Name | | Student ID | |
|  | |  | |
|  | |  | |
|  | |  | |
| Assessment Date | |  | |
| Assessment | | | | | | |
| Number | Criteria | | Evidence | | Marked Out Of | Mark Achieved |
| 1. | Code standards | |  | | 6 |  |
| 2. | Application design | |  | | 6 |  |
| 3. | Database design | |  | | 6 |  |
| 4. | Web interface design | |  | | 6 |  |
| 5. | Unit Testing | |  | | 4 |  |
| 6. | Internal documentation | |  | | 4 |  |
| 7. | User experience quality | |  | | 4 |  |
| 8. | Efficiency | |  | | 5 |  |
| 9. | Completeness | |  | | 4 |  |
|  | Total IT7x01 Project Product Assessment Marks: | | | | 45 |  |
| Assessors | | | | | | |
|  | | Name | | Signature | Date | |
| Assessor 1 | |  | |  |  | |
| Assessor 2 | |  | |  |  | |
| Assessor 3 | |  | |  |  | |

## 14.2 Appendix 2: Team schedule

Table 20: Team schedule

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Time | Monday | Tuesday | Wednesday | Thursday | Friday |
| 11am-2pm | **On Campus** | **On Campus** | **On Campus** | **On Campus** | **Off Campus** |
| 2pm-3pm | **Off Campus** | **Off Campus** | **Off Campus** | **Off Campus** |
| 3pm-7pm | **On Campus** | **On Campus** | **On Campus** | **On Campus** |

## 14.3 Appendix 3: Gantt chart

[Career guidance web portal(116-T2-2015)Gantt Chart v2.1.mpp](Career%20guidance%20web%20portal(116-T2-2015)Gantt%20Chart%20v2.1.mpp)