ATAR Calculator

Project Charter

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Project Charter

1. Purpose

This document is intended to inform its reader as to the requirements, design and testing to be undertaken in the 'ATAR Calculator' project. This document details the needs, scope, justification and resources for this project.

The audience intended for this charter is the project sponsor, stakeholders and senior leadership.

2. Project Objectives

The proposed 'ATAR Calculator' project aims to provide a stream lined, easy to use interface for the calculation of VCE raw scores to an ATAR score. Further, it will display to the user all available Tertiary courses available to them with the current ATAR score.

To meet this end, the project will utilize HTML, Java, Javascript, PHP and MySQL. It is intended for the products output in the process of this project to be hosted on an external webhost.

The project intends to deliver its solution within the space of 13 weeks.

The objectives for the project are detailed as follows:

- The solution will provide:
    o An easy to use web page as a user interface.
    o A means to calculate an ATAR score from input subject raw scores.
    o A means to populate a database table with currently offered courses in the state of Victoria, Australia.

- The solution will be:
    o Efficient.
    o Bug free.
    o Maintainable.

3. Boundaries:

The solution will:

- Allow for up to 8 assessable subjects to be entered for calculation of an ATAR score.
- Calculate a scaled score for each entered high school/higher education/VET subject raw score entered.
- Ensure at least one, and at most two English subjects are used in the calculation of an ATAR score.

- Ensure at most two mathematics subjects are used in the calculation of an ATAR score.
- Present those courses available for a given ATAR score.
- Allow users to refine the courses presented to them.
- Display correctly on desktop and mobile devices.

4. High Level Requirements

1	Delivered solution provides an efficient means for the calculating an ATAR score.
2	Delivered solution is bug free.
3	Delivered solution utilizes a simple to use and navigate web page interface for users to interact with.
4	A means must be provided for the populating of relevant database tables necessary for the function of the calculator.
5	Adequate support documents for the use and maintenance and operation of the solution delivered.

5. Major Deliverables

Manuals	Documentation pertaining to the use and maintenance of the provided project solution.
Software	Functional software for the population of database tables and calculation of ATAR scores.
Webpages	Webpage user interface that allows a user to calculate their ATAR score and retrieve a list of courses available to them with their ATAR score.
Webserver	A webserver to house the database and serve the webpage interface for the purposes of User Acceptance testing and presentation to the client.

6. Duration

Project Plan	**10 days**	**Mon 16/03/15**	**Fri 27/03/15**	
Inception	**7 days**	**Mon 16/03/15**	**Tue 24/03/15**	
Project Begin	0 days	Mon 16/03/15	Mon 16/03/15	
Requirements Gathering	7 days	Mon 16/03/15	Tue 24/03/15	3
Elaboration	**7 days**	**Mon 16/03/15**	**Tue 24/03/15**	**3**
Communication Planning	7 days	Mon 16/03/15	Tue 24/03/15	3
Construction	**7 days**	**Wed 18/03/15**	**Thu 26/03/15**	**3**
Create Documentation	7 days	Mon 16/03/15	Tue 24/03/15	3
Transition	**4 days**	**Tue 24/03/15**	**Fri 27/03/15**	**3**
Documentation Review	4 days	Tue 24/03/15	Fri 27/03/15	3
Project Plan Phase Finish	0 days	Fri 27/03/15	Fri 27/03/15	10
Website	**49 days**	**Sat 28/03/15**	**Thu 4/06/15**	**11**
Inception	**2 days**	**Sat 28/03/15**	**Mon 30/03/15**	**11**
Website Design Begin	0 days	Sat 28/03/15	Sat 28/03/15	11
Identify Scope	2 days	Sat 28/03/15	Mon 30/03/15	14
Elaboration	**14 days**	**Tue 31/03/15**	**Fri 17/04/15**	**15**
Website Design	**14 days**	**Tue 31/03/15**	**Fri 17/04/15**	**15**
Front-End	14 days	Tue 31/03/15	Fri 17/04/15	15
Back-End	14 days	Tue 31/03/15	Fri 17/04/15	15
Reviewing	14 days	Tue 31/03/15	Fri 17/04/15	15
Design Stage Complete	0 days	Fri 17/04/15	Fri 17/04/15	18,19,20
Construction	**33 days**	**Mon 20/04/15**	**Thu 4/06/15**	**21**
Development Begin	0 days	Mon 20/04/15	Mon 20/04/15	21
Development	**33 days**	**Mon 20/04/15**	**Wed 3/06/15**	**23**
Front-End	33 days	Mon 20/04/15	Wed 3/06/15	23
Back-End	33 days	Mon 20/04/15	Wed 3/06/15	23
Testing	33 days	Mon 20/04/15	Wed 3/06/15	23
Development Stage Complete	0 days	Thu 4/06/15	Thu 4/06/15	25,26,27
Transition	**0 days**	**Thu 4/06/15**	**Thu 4/06/15**	**28**
Website Launched	0 days	Thu 4/06/15	Thu 4/06/15	28
Website Doc Finished	0 days	Thu 4/06/15	Thu 4/06/15	28
Project Closure	**3 days**	**Thu 4/06/15**	**Mon 8/06/15**	**31**
Inception	**1 day**	**Thu 4/06/15**	**Thu 4/06/15**	
Closure Meeting	1 day	Thu 4/06/15	Thu 4/06/15	31
Elaboration	**1 day**	**Fri 5/06/15**	**Fri 5/06/15**	
Project Summarising	1 day	Fri 5/06/15	Fri 5/06/15	34
Construction	**1 day**	**Mon 8/06/15**	**Mon 8/06/15**	
Finalise Documentation	1 day	Mon 8/06/15	Mon 8/06/15	36
Transition	**0 days**	**Mon 8/06/15**	**Mon 8/06/15**	
Project Closure	0 days	Mon 8/06/15	Mon 8/06/15	38

7. Failure Mode and Effect Analysis

Purpose of Document: To present analysis of potential risks and failures.

Mode: How the risk will present itself

Effect: The effect the risk will have

Contingency Plan: The contingency for the event of the risk

Severity: How severe the risk is

Likelihood: How likely the risk is to occur

Detection: How detectable the risk is

Score: Points indicating overall priority by multiplying Severity, Likelihood, and Detection

Failure Mode and Effect Analysis						
Mode	Effect	Contingency Plan	Severity	Likelihood	Detection	Score
Scope Creep	Scope becomes out of control	Establish scope early and carefully consider features	8	3	7	210
Documentation Loss	Causes delays	Usage of Google Drive to centralize and secure documentation	9	2	4	72
Hardware failure	Delays development of project	Usage of university computer resources	5	5	10	250
Insufficient Documentation	Fails major deliverable	Ensure documentation reviews	10	3	0	0
AWS goes down	Prevents progress	Contact the project supervisor and team, discuss options	10	3	10	300
Team member illness	Causes delays/prevents progress	Contact project supervisor and team, discuss options	8	5	10	400
Loss of code	Severely delays project	Maintain backups of code	10	2	5	100
Software failure	Delays development of project	Focus team on correcting issue	7	5	5	175

8. Risks & Contingencies

Risk	Contingency
Project team member falls ill.	Assess the likely period of which the team member in question will be unable to contribute at full capacity and delegate said team members work load to others as necessary.
It becomes clear that the requirements were initially misunderstood/misinterpreted.	Conduct meeting with product owner to ensure requirements are properly understood by all members of the project team. Create additional requirements documentation.
It is clear the project is unable to see completion within its established time frame.	Bring the project and its generated solution to a stable state, document adequately and prepare for it to be under taken by another team.
Lack of developers with knowledge of scripting languages (PHP, JavaScript etc.).	Acquire necessary training resources, and schedule time to bring the project team members up to speed.
Lack of developers with knowledge in MySQL.	Acquire necessary training resources, and schedule time to bring the project team members up to speed.
Project requirements change to such an extent that the project is no longer achievable given the current schedule.	Discuss and negotiate with the product owner with an emphasis on clarifying what the most important aspects of the given requirements are and find a solution that can be achieved within the given schedule.
Project team member is rendered unable to work due to their workstation breaking down.	Investigate an alternative workstation for the duration that the project members' workstation is down.

9. Stakeholders

- Product owner: Adam Ward
- Supervisor: Falk Scholer
- End users
- Project team:
    o Declan Holmes
    o Sean Ackerley
    o Jonathan Hein