

	MARKS	Notes/ Comments
<b>INTRODUCTION TO PROJECT</b>		
<b>Was an explanation provided on which route the student followed: Web application developer or Web API developer?</b> The student should provide a comprehensive overview of the route that was followed and why this route was chosen (1 mark). <i>No mark is awarded if the student does not explain the role they took on and why.</i>	<b>1</b>	
<b>Was an explanation provided on the student's understanding of the ASP.NET MVC core technology?</b> The student should provide a clear description of how <i>and why</i> MVC is applied in this project (1 mark). <i>No mark is awarded if student cannot clearly explain what MVC is used for.</i>	<b>1</b>	
<b>Did the student provide a clear explanation of which database was used for the project, and why?</b> The student should explain and demonstrate which database technology was used. (1 mark). <i>No mark is awarded if student cannot demonstrate the database.</i>	<b>1</b>	
<b>Did the student demonstrate where the site is hosted online?</b> The site must be accessible online, no local systems are allowed. The student must demonstrate where the site is hosted, and provide the URL to where it is hosted online. (1 mark) <i>No mark is awarded if the site is locally hosted.</i>	<b>1</b>	
<b>Did the student demonstrate how a source control platform was used?</b> The student should demonstrate how they used a source control platform such as Git to commit regular versions of their system. (Award 1 mark if attempted, 2 marks if successfully implemented). <i>No marks are awarded if commits only start a week prior to the due date - the student must demonstrate regular commits over at least a 2 week period.</i>	<b>2</b>	
<b>USE OF PATTERNS AND PRINCIPLES</b>		
<b>Did the student clearly explain and demonstrate how a design pattern was implemented?</b> The student should explain why a specific design pattern was chosen, and how it was successfully implemented (Award 1 mark if attempted, 2 marks if successfully implemented). <i>No marks are awarded if explanations are ambiguous.</i>	<b>2</b>	

<p><b>Did the student clearly explain and demonstrate how an architectural pattern was implemented?</b> The student should explain why a specific architectural pattern was chosen, and how it was successfully implemented (Award 1 mark if attempted, 2 marks if successfully implemented). <i>No marks are awarded if explanations are ambiguous.</i></p>	2	
<p><b>Did the student adhere to SOLID principles?</b> The student should demonstrate where and how SOLID principles were implemented and adhered to. (Award 1 mark if attempted, 2 marks if successfully implemented). <i>No marks are awarded if explanations are ambiguous.</i></p>	2	
<b>WEB APP DEVELOPER ONLY: AUTHENTICATION</b>		
<p><b>Does the registration include validation checks?</b> The student should demonstrate, for example, that feedback is provided to indicate that it is not a valid email address, check that only 10 numbers are entered for a cellphone number etc. (1 mark)</p>	1	
<p><b>Can the site be accessed only through login?</b> The student should demonstrate that the site cannot be accessed without logging in first. This can be done by logging in, copying the URL of the landing page, logging out again, and then pasting the copied URL in a browser to showcase whether the site redirects to the login page or bypasses the login to the landing page. (1 mark) <i>No mark is awarded if it is not clearly evident that a user must login first to use the system.</i></p>	1	
<p><b>Can the site write credentials to the database?</b> Does the registration data get saved to the database? The student should demonstrate the database before registering a new user, and after registration to indicate whether newly created data was saved to the database. (1 mark) <i>No mark is awarded if it is not clear that a new registered user was added to the database after registration.</i></p>	1	
<p><b>Can the site read the credentials that was just written to the database?</b> Can the user log in to the system with a new user that was just registered? The student should login to the system using the newly registered user that was created in the previous criteria. (1 mark) <i>No mark is awarded if student uses an existing record from the database, only award mark if the new registered user details were used.</i></p>	1	

WEB API DEVELOPER ONLY: AUTHENTICATION			
<p><b>Did the student demonstrate the authentication method that was used to control access to the API?</b> The student should demonstrate and clearly explain how access to the API is restricted through the use of authentication details. <i>(Award 2 marks if attempted, 4 marks if successfully implemented). No marks are awarded if explanations are ambiguous.</i></p>	<b>or 4</b>		
DATA, DATABASE AND CRUD FUNCTIONALITY			
<p><b>Was the provided dataset migrated to the database?</b> Student should demonstrate where data from provided dataset was migrated to/ demonstrate database used in project. <i>(1 mark) No marks are awarded if student cannot clearly demonstrate the database for the project.</i></p>	<b>1</b>		
<p>Can new data be <b>created</b> in the database (relating to the dataset) through the solution? Student should demonstrate how a record is entered through the web solution and is then added to the database. <i>(1 mark) No marks are awarded if student cannot demo the updated database prior to and after the record was added.</i></p>	<b>1</b>		
<p>Can data be <b>read/retrieved</b> from the database (relating to the dataset) through the solution? The student should demonstrate how live data from the database is displayed in the solution. This can be achieved by, for example, a search function. <i>(1 mark) No marks are awarded if student cannot demo a live instance of data being retrieved from the database.</i></p>	<b>1</b>		
<p>Can data be <b>updated</b> in the database (relating to the dataset) through the solution? Student should demonstrate edit/update functionality of a particular record through the solution. <i>(1 mark) No marks are awarded if student cannot demo the database prior to and after the record was updated.</i></p>	<b>1</b>		
<p>Can data be <b>deleted</b> from the database (relating to the dataset) through the solution? Student should demonstrate how a record is removed from the database after being deleted in the solution. <i>(1 mark) No marks are awarded if student cannot demo the database prior to and after the record was removed.</i></p>	<b>1</b>		

<b>Were passwords stored securely in the database?</b> Were passwords hashed or encrypted? No passwords should be found in the code. Student must demonstrate that passwords are not viewable in plain text. (1 mark) <i>No mark is awarded if student cannot clearly demonstrate security of stored passwords.</i>	1	
<b>Was row-level security applied?</b> Can data be viewed/ sent or received based on the user that has been signed in? Student should demonstrate row-level access of 2 different types of users. (1 mark) <i>No mark is awarded if student cannot clearly demonstrate and explain why the example is considered as row-level security.</i>	1	
<b>Was role-based access control applied?</b> Can data be viewed/ sent or received based on the role that the user has? Student should demonstrate role-based access of 2 different types of roles. (1 mark) <i>No mark is awarded if student cannot clearly demonstrate and explain why the example is considered as role-based access control.</i>	1	
<b>WEB APP DEVELOPER vs WEB API DEVELOPER</b>		
<b>FOR WEB APP DEVELOPER ROLE ONLY:</b> Was a data analytics tab included that provides real-time valuable information from the database? Student should demonstrate added functionality in the form of data analytics/ business intelligence information that is based on data in the database. Student should demonstrate how values are updated before and after data has been added to/ removed from the database. (Award 1 mark if attempted, 2 marks if successfully implemented).	2	
<b>FOR WEB API DEVELOPER ROLE ONLY:</b> Did the student thoroughly demonstrate an understanding of how the role of the API developer differs from the role of the web app developer? The student should clearly explain the differences between the 2 roles and their learning experience. (Award 1 mark if attempted, 2 marks if clearly explained).	or 2	
<b>Total = 25 (possible 26)</b>		