Assessments & Feedback

Assignment Marking Rubric 2024

Criteria	Ratings		
This criterion is linked to a learning outcome3D Models 20 marks towards the quality of the 3D models: This part of the assignment considers the quality of your Lab 3D models from a scene perspective, e.g. is the model illuminated correctly, do you have sufficient camera viewpoints, is the geometry optimal and have you applied appropriate materials and textures? Specifically: Efficient geometry for the 3D models. Good use of materials and textures where needed. Appropriate use of lighting models and camera types.	**20 to >15.0 Pts** **Excellent** Your 3D models demonstrate excellent geometry, materials, textures, lighting models and camera types as indicated in the criteria.	**15 to >10.0 Pts** **Good** Your 3D models demonstrate good geometry, materials, textures, lighting models and camera types as indicated in the criteria.	**10 to >5.0 Pts** **Average** Your 3D models der average geometry, textures, lighting m camera types as inc the criteria.
This criterion is linked to a learning outcome3D App Implementation 50 marks towards the actual implementation of the assignment as an interactive 3D App exploiting 3D models with efficient uses of HTML5, CSS3, X3D, THREE.JS, JavaScript, AJAX, JSON, XML, PHP, SQLite and frameworks such as Bootstrap, and innovative use of technologies to create a unique Web 3D Application, including use of other appropriate media objects (images, video, audio, etc.). The 3D App will be examined for its: [15 Marks] Design quality and implementation including	**50 to >35.0 Pts** **Excellent** Your 3D App demonstrates an excellent standard of implementation of the features illustrated in the criteria. Your 3D app demonstrates an excellent understanding of the production of the features illustrated in the criteria.	**35 to >25.0 Pts** **Good** Your 3D App demonstrates a good standard of implementation of the features illustrated in the criteria. Your 3D app demonstrates a good understanding of the production of the features illustrated in the criteria.	**25 to >10.0 Pts** **Average** Your 3D App demon average standard of implementation of illustrated in the cri 3D app demonstrat average understand production of the fe illustrated in the cri

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usability. Good use of fluid grid layout with HTML and CSS3. Good styling with CSS3. Design of input features, e.g. CSS button styling. Usability.	
... [10 Marks] Integration of media including images, audio, video and 3D. Efficient loading of 3D models through a good user interface. Triggering animations, audio, etc. through appropriate interfaces, e.g. buttons, proximity sensor, ... on the user interface Appropriate lighting and application of cameras triggered through JavaScript buttons, e.g. turn on/off spot light, ... on the user interface 3D content swapping, i.e. changing of elements of the model (switch to wireframe, change a textures, ...). Description of your 3D objects in the Web 3D Application. How well is this is integrated in appropriate text boxes. ...	
[10 Marks] Interaction with the 3D models. Ability to manipulate the 3D model using JavaScript or X3DOM, for example: Use of cameras to view the 3D model. Animation features — use of JavaScript to trigger any animation!	

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[15 Marks] Implementation of your 3D APP with an ‘about’ page explaining how you have produced your model and the design choices you have made. You may wish to explain how you have considered accessibility in your design on this page. ... This could include implementation of your 3D App with a MVC design pattern. Implementation of a good MVC design pattern exploiting HTML5, CSS3, JavaScript (and/or appropriate Libraries and frameworks), AJAX, JSON, PHP (and/or appropriate libraries or frameworks) and SQLite. This criterion is linked to a learning outcome Demonstrating Deeper Understanding			
Applying Shaders and texturers GLSL (GL Shader Language) to your project to provide effective and justified effects. Applying post-processing tools to develop stylised looks to website animations.	**20 to >15.0 Pts** **Excellent** Your 3D App implementation demonstrates at greater than 3 of the features listed in the criteria.	**15 to >10.0 Pts** **Good** Your 3D App implementation demonstrates at least 2 of the features listed in the criteria.	**10 to >5.0 Pts** **Average** Your 3D App impleme demonstrates at leas the features listed in criteria.

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20 marks will be reserved for demonstrating deeper understanding by extending the work beyond the laboratory tutorials across any element of your 3D App development. For example, you might make: More complicated 3D models, but don't spend your whole life doing this, you need to balance time against marks Marks are also available for using 3D authoring packages, e.g. Maya and Cinema 4D, that are not taught in the labs, and associated workflows Good use of a JavaScript Libraries, e.g. JQuery, JQuery Mobile , etc. beyond Lab 8 Good use of a front-end JavaScript framework, e.g. Bootstrap, AngulaJS ... Going beyond the level of PHP covered in the labs, e.g. Use of a PHP database abstraction layer in the form of a lightweight framework, e.g. SLIMLinks to an external site., and a simple database for the backend. More focus on developing your own simple API for the backend. Clever use of 3D interactions, e.g. sophisticated animations that support the story around the object — not simple animations such as rotating the object, that is covered above. ...	

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Criteria	Ratings	
This criterion is linked to a learning outcome Implementation and Publication of Assignment - Required Evidence 20 marks are assigned to a correct publication of your 3D App so that it can be tested by someone else. Evidence to demonstrate this includes submitting in the 3D App - CONTRIBUTORY SUBMISSION section the following components: 1) Packaged and launched through Visual Studio Code. 2) 3D App Implementation ITS Web Server URL. 3) GitHub 3D App Codebase URL. 4) GitHub VRML/X3D Models URL. 5) 3D App Deeper Understanding Statement with feedback from testing. Total points: 100	**10 to >0.0 Pts** **Passed** Your 3D App implementation has been successfully published and tested.	**0 Pts** **Poor** Your 3D App tested

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