Team Name: ………………………………………………............ Date: ……………………..………..

GitHub URL: ……………………………………………………………

Team Members

Name: ………………………..…………. StudentID:………………… Name: ………………………………….… StudentID:…………………

Name: ………………………..…………. StudentID:………………… Name: …………………………………... StudentID:…………………

Video Details: ………………………………………………………………

**0-No feature, 1-Attempt, 2-Working, 3-Excellent**

|  |  |  |
| --- | --- | --- |
|  | Each sub-component should be given 0-3  e.g., | 0-3 |
| Demonstrate Understanding of HTML, CSS and Javascript | Working Client/Server Game   HTML, CSS and Javascript validates fully (no syntax errors, warning, issues)   Creative use of CSS styling (which lines/files)   Advanced CSS3 layout (which lines/files)   Creative use of Javascript (which lines/files why creative)   HTML5 semantic elements used appropriately (evidenced, how, has the HTML been run through HTML validation software W3C and included in the submission)   Game/website should be responsive (also responsive in a mobile/different browsers) – Code for managing client/server delays, e.g., Interpolation, prediction, AI. Good used of asynchronous Javascript (avoid stalling GUI)   **Hand written code** (clean, structured, commented, ..) \***Your Code**\*  (e.g., all files commented, license/author details top `all’ files, indentation consistent across `all` files, should be the same for all team members (project coordination) |  |
| Client/Server |  Manage **communication** between multiple `concurrent’ **client/server** (i.e., the games should not be running `separately’ but shared interactive experience) – manage concurrent/client server interaction of data (e.g., collisions/data conflicts)   Handle issues (delays, network issues, corruption, )  Interpolation, message pausing the game (delay is over 5 seconds), smart AI system, … |  |
| Database/Security |  Data is managed for the website effectively and efficiently (Server/Database)   **Database (working reading/writing)** [stores variety of information, such as high scores, ]   Data is automatically backed up (server side),   Whitelist/validation testing for data submitted to server   Client also tests/validates data sent from server (corruption/value ranges avoid cheating)   Database security checks (all SQL commands are `security checked’ avoid SQL injection)   Data sent/received is encoded/decoded/validated somehow (e.g., hash/pattern   IP tracking (prevent spamming/attack logging)   Login system (user can register and login/store/continue game progress)   Reset/restore password (maximum allowed tries, attack prevention)   User passwords hash encoded with salting (or similar complex encryption) |  |
| Code Structure |  Clear separation of code/styling   **Tidy code organisation**, file and folder names (js folders/css folder, ..)   Clear variable names, constants for fixed values, avoid using `magic’ hard coded numbers scattered around code, ..   Appropriate code nesting and indentation (methods with clear purposes, descriptions/comments – avoid adhoc/hack fixes), scoping and not having everything `global’   Informative code comments (readme, `all’ files commented, every function, style, ..) |  |
| Usability |  Easy to navigate and use (Website/Game)  (Accessibility testing? Different browsers, screen resolution, mobile/desktop, language - `evidenced’ – detailed in the documentation)   Clear awareness of accessibility principles (evidenced in the website, e.g., about/help page, also in the documentation/readme/code)   Disclaimers/warnings – e.g., photosensitive epilepsy/flashing images   Effective navigation at all sizes, content easy to locate  Font size (scales to different screens, not just `fixed/hardcoded’), text/information not in margins, bright/animated buttons/text so easy to see/identify on the screen   Limitations and optimizations  Profiling data statistics, jpg vs bmp, appropriate file sizes/download considerations (avoid downloading everything for anything), sending only required data to specific clients (not all data to all clients) |  |
| Development Progress |  Shows even work distribution (group work)  (**evidence** on code written/bugs fixed/testing/…)   Evidence of task development, tuning, feature refinement  (week by week log of task development, i.e., not the last week or 2 weeks – over the full duration of the project)   Live site (Github website)  (GitHub page, with readme, and access to material/source files)   Project management  (team synergy, evidence of team working together on GitHub, helping/each other, such as, task lists, issues lists, bug fix lists available on GitHub over the duration of the project) |  |
| Testing |  Testing integrated into the project from the start  (as each feature was added a set of tests was defined/included in the code/documentation)   Validation/verification process for ensuring reliability (e.g., code, standards, ..)   **Documentation on the tests** (e.g., were delays added to the server to simulate poor connections, automatic errors added to the send/receive data, soak testing (left running 3+ days), larger number of instances created to simulate 100s or 1000s of simultaneous users) |  |

Notes/Comments (Extra Features)