Interactive Pixel Art Creator with Sense HAT

| **Criteria** | **Proficient (3)** | **Basic (2)** | **Limited (1)** |
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| **Developing Algorithms** | The project showcases an advanced understanding of algorithm development.  Algorithms are highly efficient, well-organized, and demonstrate creativity.  Strong evidence of modular design, abstraction, and optimization in algorithmic solutions. | The project exhibits a solid understanding of algorithm development principles.  Algorithms are logically structured, efficient, and well-documented.  Demonstrates the use of modular design and abstraction in algorithmic solutions. | The project demonstrates a basic understanding of algorithm development.  Algorithms are simple, inefficient, or lack clarity.  Limited use of modular design or abstraction in algorithmic solutions. |
| **Lists / arrays** | The project showcases advanced proficiency in using lists/arrays.  Highly efficient and optimized implementation of lists/arrays.  Demonstrates creativity in the use of lists/arrays, such as employing advanced data structures or algorithms for manipulation. | The project effectively utilizes lists/arrays to manage data.  Lists/arrays are implemented correctly and efficiently.  Demonstrates skill in manipulating and accessing data within lists/arrays. | Limited use or understanding of lists/arrays in the project.  Inefficient or incorrect implementation of lists/arrays.  Little evidence of manipulation or effective use of data structures. |

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| **Define Program Function** | The program function is mostly clear and includes most of the essential features for a recipe app. Some aspects may require further refinement. | The program function is partially defined, but it lacks clarity or completeness. Key features may be missing or vaguely described. | The program function is poorly defined and lacks clarity. It is missing essential features or does not consider the needs of the target audience. |
| **Program Design** | The wireframes and mockups are well-crafted and provide a clear representation of the app's design. They generally align with the defined program function and user needs. | The wireframes and mockups are somewhat detailed but may lack consistency or clarity in design. They require further refinement to fully align with the program function. | The wireframes and mockups lack detail, consistency, or clarity, making it challenging to understand the app's design. Significant improvements are needed. |
| **Identifying and Correcting Errors** | Most errors or design flaws are identified and corrected during the design process. The design shows good attention to detail and usability. | Some errors or design flaws are identified and corrected, but others remain unresolved. The design may lack consistency or exhibit minor usability issues. | Few errors or design flaws are addressed, and many issues remain unresolved. The design lacks attention to detail and usability. |
| **Working in Teams** | Team members work well together, with defined roles and good communication. The project is generally organized, with minor deviations from the schedule. | Team members work together but may struggle with role definition and communication. The project has some organizational challenges and deviations from the schedule. | Team members have difficulty working together, with unclear roles and poor communication. The project is disorganized, and there are significant deviations from the schedule. |
| **Development Cycle** | The project follows an organized development cycle with defined phases and milestones. Most deadlines are met, and the project generally progresses smoothly. | The development cycle is somewhat structured, but there may be some deviations from the plan. Some milestones and deadlines are met, but the project may experience delays or challenges. | The development cycle lacks clear structure and organization. Milestones and deadlines are frequently missed, leading to significant project delays. |
| **Documentation** | The project documentation is well-structured and covers essential aspects of the design process, including design rationale, user feedback, and revisions. It is a valuable resource for reference. | The project documentation is somewhat organized but may lack completeness or clarity in certain areas. It provides a basic overview of the design process. | The project documentation lacks organization, and key aspects of the design process, such as design rationale, user feedback, and revisions, are missing or unclear. |
| **User Testing** | User testing is conducted with relevant target users, and feedback is generally constructive. The app design is refined based on user feedback, enhancing usability. | User testing is conducted with a limited group of users, and feedback may lack depth or diversity. The app design is adjusted based on some user feedback but may not fully address all usability issues. | User testing is minimal or nonexistent, and little to no user feedback is incorporated into the app design. Usability issues may remain unaddressed. |