Bro Team Sudoku Web Application SWE Project Plan

PROJECT TITLE Sudde Mark Application Sudde Web Application Bro Team (Abonathan, Jan, Mark)
PROJECT MANAGER Jun Charles (1987) Sudde Mark (2014) Junathan Mele (1987) Mark (2014) Mar

PHASE NUMBE	R TASK TITLE & TASK DETAILS						SEPTEMBER			OCTOBER				NOVEMBER					DECEMBER		
Production of				TASK OWNER	9/4/24	9/9/24	9/16/24	9/23/24	9/30/24	10/7/24	10/14/24	10/21/24	10/28/24	11/4/24	11/11/24	11/18/24	11/25/24	12/2/24	12/9/24	12/16/24	
1	Gathering User Requirements																				
1.1	Research Domain Knowledge			All																	
1.2	Meet with the customer and stakeholders			All																	
1.3	Ask what they are looking for?			All																	
1.4	Develop a Storyboard			All																	
1.5	Develop Use Case Scenarios			All																	
2	Generating Technical Requireme	nts																			
2.1	System Architecture	2.1.1 Sequence Diagram		All																	
		2.1.2 Components Digram		All																	
		2.1.3 Activity Diagram		All																	
2.2	Component Specification	2.1.4 Class Diagram		All																	
2.3	Interface Specification			All																	
2.4	Communication Specification			All																	
2.5	Algorithm Design			All																	
2	Documentation Testing Specificat	tion																			
2.1	Collect and format all system	2.1.1 Create a Google Drive to store all the Storyboards, Project		Mark																	
	architecture diagrams	Plan, Diagrams 2.1.2 Create a GitHub Repository to store the code in one place		Jan																	
	Comment the programming code	2.2.1 Provide comments for programming each algorithm.																			
2.2	when in the implementation phase	function, etc		All																	
3	Implementation																				
3.1	Prototype Code	3.1.1 Test out Flask and Django FullStack Framework		Jan																	
		3.1.2 Decide if this is the framework chosen for the project	3.1.3.1 Set cell entry function	All																	
		3.1.3 Start prototyping various components	3.1.3.1 Set cell entry function 3.1.3.2 Undo Last Move(s)	Mark Jonathan																	
			3.1.3.3 Set Note	Mark																	
			3.1.3.4 Check Puzzle	Jan																	
			3.1.3.5 Select New Puzzle	Jan																	
			3.1.3.6 Get Specific Hint	Jonathan																	
			3.1.3.7 Get Random Hint	Jonathan																	
3.2	Develop a GUI	3.2.1 Test the GUI 3.2.2 Decide what UI changes need to be made to the GUI		Jan All																	
		3.2.2 Decide what OI changes need to be made to the GOI 3.2.3 Refactor the GUI		Jan																	
3.4	Application Code	3.4.1 Backend Development Week 1	3.4.1.1 Store pre-made games	Jonathan																	
			3.4.1.2 Create datatypes for individual game components	Mark																	
		3.4.2 Frontend Development Week 1	3.4.2.1 Develop a simple interface with the game board	Jan																	
			3.4.2.2 Make sure that the interface setup is independent of the code	Jan																	
		3.4.3 Backend Development Week 2	3.4.3.1 Develop relationships to save games, number of wins, etc	Mark Jan																	
		3.4.4 Frontend Development Week 2	3.4.3.2 Develop a login system to keep track of user information 3.4.4.1 Add addional functionality around the board prompting the user to click on the note cell, get a hint, etc	Jan Ionathan																	
		3.4. Homen Development reck 2	3.4.4.2 Develop individual pages where notes, archived games, etc will be stored and viewed by the user	Jonathan																	
		3.4.5 Backend Development Week 3	3.4.5.1 Connect the Frontend to the Backend	Jan																	
			3.4.5.2 Test that the relationships work between what information needs to be extracted from the different data types																		
		3.4.6 Frontend Development Week 3	3.4.6.1 Test seemless functionality of the interface with the backend game engine	Mark																	
		3.5.1 Test the functionality of the different functions	3.4.6.2 Change GUI is needed	Mark																	
3.5	Test Code		3.5.1.1 Fix bugs on the Frontend Side	Jan Mark &																	
		3.5.2 Test the correctness of the algorithm	3.5.2.1 Fix bugs on the Backend Side	Jonathan																	
4	Testing																				
4.1	Unit Testing	4.1.1 Check puzzle, Select New Puzzle		Jan																	
		4.1.2 Set cell entry, Set note		Mark							-										
4.2	Component Testing	4.1.3 Undo Last Move, Get Specific Hint, Get Random Hint 4.2.1 Check puzzle, Select New Puzzle Backend & Frontend		Jonathan Jan						-	-										
7.2	component resumg	4.2.2 Set cell entry, Set note Backend & Frontend		Mark						-	-										
		4.2.3 Undo Last Move Get Specific Hint. Get Random Hint		Jonathan																	
		Backend & Frontend																			
4.3	System Testing	4.3.1 Frontend 4.3.2 Backend		Jan							-										
		4.3.2 Backend 4.3.3 Frontend & Backend		Mark Jonathan																	
4.4	User Testing	4.4.1 Test GUI and seemless functionality		Jan						-	-										
		4.4.2 Test Single User Login and Saving Functionalities		Mark																	
		4.4.3 Test Multiple User Logins and Storing of multiple		Jonathan .																	
		individual data		Jonathan																	