CRITERION B: RECORD OF TASKS

Task Number	Planned Action	Planned Outcome	Time Estimated ()	Target Completion Date	Criterion
1	Initial consultation with client	Understand client requirements and desired features for the app	0.5 hours	2/2/24	A
2	Define project scope and objectives	A clear project scope and a list of objectives based on client's needs	3 hours	2/2/24	A
3	Select technology stack	Decide on Android (Java), Firebase, and APIs for development	0.5 hours	2/2/24	A
4	Create a project timeline and milestones	A detailed project plan with key milestones and deadlines	3 hours	2/3/24	A
5	Design database schema for user registration	A structured Firebase Firestore database schema	2 hours	2/3/24	B
6	Draft initial app design and layout concepts	Preliminary app designs for client review	2 hours	2/4/24	A
7	Implement FirebaseAuth user signup in SignUpFragment	Users can register with email and password	1 hours	2/4/24	B
8	Design SignUpFragment UI	A user-friendly registration interface	0.5 hours	2/5/24	B
9	Implement input validation for SignUpFragment	Secure and validated user input	0.5 hours	2/6/24	B
10	Test FirebaseAuth integration	Successful user registration in Firebase	2 hours	2/7/24	B

11	Design SignInFragment UI	A user-friendly login interface	3 hours	2/10/24	B
12	Implement input validation for SignInFragment	Secure and validated user login input	1 hours	2/11/24	B
13	1st Draft	Complete First Draft	0.5 hours	2/12/24	B
14	2nd draft	complete second draft	0.5 hours	2/12/24	B
15	Implement logout functionality	Users can securely log out from their account	0.5 hours	2/13/24	B
16	Implement AddDepositFragment functionality	Users can add virtual currency to their account	2 hours	2/15/24	B
17	Design AddDepositFragment UI	A user-friendly interface for adding virtual currency	3 hours	2/16/24	B
18	Test deposit functionality	Users can add virtual currency without issues	1 hours	2/17/24	B
19	Implement PortfolioActivity functionality	Users can view their investments	4 hours	2/19/24	B
20	Design PortfolioActivity UI	A user-friendly interface for viewing investments	3 hours	2/20/24	B
21	Test portfolio viewing functionality	Users can view their investments without issues	2 hours	2/21/24	B
22	Implement investment buying functionality	Users can invest in books using virtual currency	1 hours	2/23/24	B
23	Test investment buying functionality	Investment transactions are processed correctly	2 hours	2/24/24	B

24	Implement real-time investment value updates	Investment values update based on real-world data	1 hours	2/26/24	B
25	Test real-time investment value updates	Investment values accurately reflect real-world changes	0.5 hours	2/27/24	B
26	1st Draft	Complete First Draft	1 hours	3/1/24	C
27	Design HomeActivity UI	A user-friendly home interface with book investments	1 hours	3/1/24	B
28	Implement book search functionality in HomeActivity	Users can search for books to invest in	1 hours	3/3/24	B
29	Test book search functionality	Book search returns accurate results	0.5 hours	3/4/24	B
30	Implement Firebase Firestore security rules	Secure database interactions	1 hours	3/5/24	B
31	Test overall app security	App interactions with Firebase Firestore are secure	0.5 hours	3/6/24	B
32	Users can sell their book investments	A working PortfolioActivity.	2 hours	3/7/24	B
33	Test investment selling functionality	Investment selling transactions are processed correctly	2 hours	3/7/24	B
34	Implement error handling for transactions	Robust error handling for buying and selling investments	3 hours	3/7/24	C
35	Test error handling in transactions	Transactions gracefully handle errors without crashing the app	1 hours	3/7/24	C
36	Optimize Firestore queries	Improved efficiency and reduced latency in database interactions	0.5 hours	3/7/24	C

37	Test Firestore query optimizations	Firestore interactions are faster and consume less bandwidth	0.5 hours	3/8/24	C
38	Implement user session management	Secure management of user sessions with auto logout on app close	1 hours	3/9/24	C
39	Test user session management	User sessions are securely managed, with auto logout functioning	0.5 hours	3/9/24	C
40	Optimize UI/UX for SignIn and SignUp Fragments	Enhanced user experience for registration and login	0.5 hours	3/9/24	C
41	Test UI/UX optimizations	Users find the app more intuitive and easier to navigate	1 hours	3/10/24	C
42	Implement feedback mechanism for investment actions	Users receive feedback on the success or failure of investment actions	1 hours	3/10/24	C
43	Test feedback mechanisms	Feedback mechanisms for investments are informative and user-friendly	0.5 hours	3/12/24	C
44	Implement background task for updating book values	Book values are updated in the background without user intervention	1 hours	3/13/24	C
45	Test background task for book value updates	Background updates of book values are reliable and efficient	2 hours	3/14/24	C
46	Finalize all UI/UX elements across the app	A cohesive and engaging user interface and user experience	1 hours	3/14/24	C
47	Conduct comprehensive UI/UX testing	The app provides a seamless and intuitive user experience	0.5 hours	3/14/24	C
48	Implement and test data persistence	User data and state are persisted across app sessions	4 hours	3/14/24	C

49	Create demonstration video (Criterion D)	A video showcasing the app's functionality and features	2 hours	3/15/24	D
50	Make executible version	Complete Compliation	0.5 hours	3/16/24	NA
51	Evaluation	Use client feeback to complete evaluation	2 hours	3/16/24	E
52	Prepare product +documentation zip	Review project to ensure it fits requirements	1 hours	3/17/24	NA

Total Hours Spent 72.5