Finvest Holdings

Security Software & Analysis

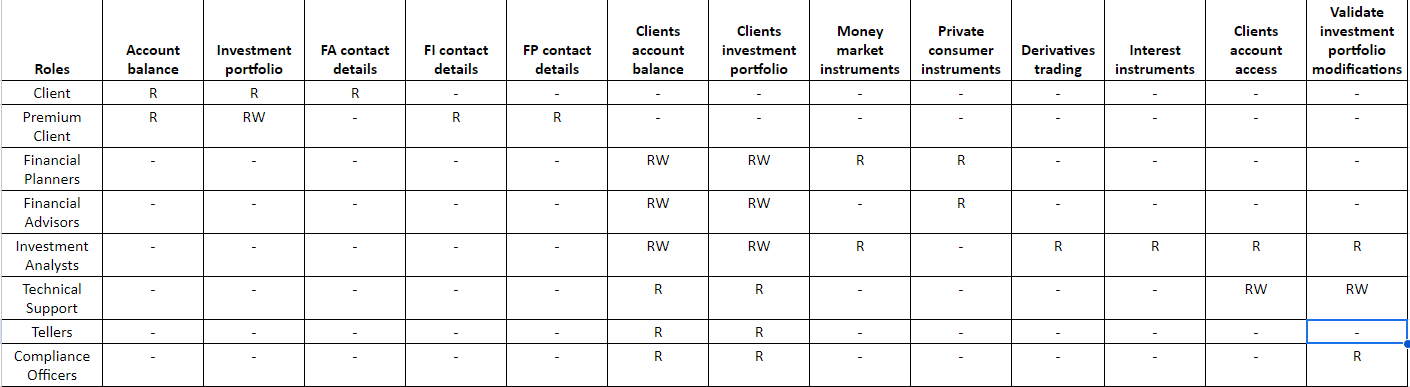
SYSC 4810 Assignment

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# Problem 1

1. The access control model that the Finvest Holdings security system will be the RBAC control model. This is because RBAC sets permissions based on roles which is similar to what is described in Part 1 Section 2 – Context. RBAC also allows for the expandability of permissions via additions of different roles, making it very scalable.
2. The access control representation that the Finvest Holdings security system will be is an access control matrix. This is because each of the roles have different access to various permissions and an access control matrix allows for the setting of permissions for each role separately. Furthermore, each row can be used as a capabilities list, depicting the permissions of each role, and each column can be used as an access control list, depicting how many roles have access to a selected permission.
3. 

# References

1. https://www.linkedin.com/pulse/comprehensive-overview-access-control-models-rbac-abac-jay-/