

CodeQuest

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CS 320 - Software Metrics

View Profile of Users

Information Domain Value	Points	Count	Simple	Average	Complex	Total
<i>External Inputs</i>	- Logging in - Clicking Profile	1	1	0	0	1
<i>External Outputs</i>	- Display of user info, questions, solutions, exercises	3	0	3	0	3
<i>External Inquiries</i>	- Query for user profile, questions, solutions, exercises	3	0	3	0	3
<i>Internal Logical Files</i>	- User profile data, solutions, exercises	2	0	2	0	2
<i>External Interface Files</i>	- Third-party authentication services	1	1	0	0	1
<i>Total</i>		10	2	8	0	10

External Input (EI):

User logs in and clicks the “Profile button to access their own or another user’s profile

External Output (EO):

- Display of user profile information (username, bio, etc.)
- Display of questions and solutions submitted by user or viewed on other profiles
- Display of exercises completed by the user

External Inquiry (EQ):

- Querying the database to retrieve user profile details

- Querying questions and solutions submitted by the user or others
- Querying exercises completed by the user

Internal Logical Files:

- User profile data stored in database
 - Name
 - Bio
 - Etc.
- Solutions and exercises completed by user
 - Stored in database table

External Interface Files (EIF):

- Third-party authentication services
 - When users log in via Google, GitHub, etc.

View Module 3 Exercises

Information Domain Value	Points	Count	Simple	Average	Complex	Total
<i>External Inputs</i>	- Logging in, choosing to view Module 3 exercises	1	1	0	0	1
<i>External Outputs</i>	- Display available exercises	3	0	3	0	3
<i>External Inquiries</i>	- Query to check if Module 2 is complete, query to retrieve exercises	2	2	0	0	2
<i>Internal Logical Files</i>	- User completion status, Module 3 exercises	3	0	3	0	3
<i>External Interface Files</i>	- N/A	1	1	0	0	1
<i>Total</i>		11	4	6	0	10

External Input (EI):

- User logs in and has completed Module 2
- User decides to view Module three exercises

External Output (EO):

- Display of available crowdsourced exercises for Module 3

External Inquiry (EQ):

- Querying database to check if use completed Module 2
- Querying database to retrieve Module 3 exercises

Internal Logical Files:

- Database storing user completion status of exercises
 - Module tracking system TBD
- Database storing Module 3 crowdsourced exercises

External Interface Files (EIF):

- N/A

Removing a Solution to an Interactive Programming Exercise/Removing an Exercise

Information Domain Value	Points	Count	Simple	Average	Complex	Total
<i>External Inputs</i>	- Identifying and clicking to remove a solution or exercise	1	1	0	0	1
<i>External Outputs</i>	- Notification of solution/exercise removal	2	2	0	0	2
<i>External Inquiries</i>	- Query to find the solution, query to check for valid remaining solutions	3	0	3	0	3
<i>Internal Logical Files</i>	- Solutions and exercises, admin actions	3	0	3	0	3
<i>External Interface Files</i>	- N/A	1	1	0	0	1
<i>Total</i>		10	4	6	0	10

External Input (EI):

- Admin identifies a faulty solution
- User clicks to remove a faulty solution or exercise

External Output (EO):

- Notification to system or users that solution or exercises has been removed

External Inquiry (EQ):

- Querying the database to find the solution/exercise flagged for removal
- Querying to check if other valid solutions exist before deleting an exercise

Internal Logical Files:

- Database storing solutions and exercise
- Database logging admin actions, such as solution removals

External Interface Files (EIF):

- N/A