

USER INTERFACE (UI) SOFTWARE METRICS

Internal Logical File (ILF):

None

External Interface File (EIF):

Exercises (external API)

User data

- user_id
- user_name
- Past_workouts

External Input (EI):

send new user data to database

send user options for workout generation

External Output (EO):

Generate and display workout

List past workouts based on specific parameters

- muscle group
- type (cardio, powerlifting, body-weight)
- date/time

External Inquiry (EQ):

None

Information Domain Value	Count	Simple Weight	Average Weight	Complex Weight	Total Weight
ILF	0	3	4	6	0
EIF	2	4	5	7	9
EI	2	3	4	6	9
EO	2	7	10	15	30
EQ	0	5	7	10	0
	6				48

1. **ILF:**

- No internal logical files

2. **EIF:**

- User data is weighted as **Simple (4)** due to the small number of data elements and the low complexity of fetching data from the database.
- Exercises Weighted as **Simple (4)** as there little complexity with taking data in as for example a JSON

3. **EI:**

- Sending user data is weighted as **Simple (3)** as this can be accomplished relatively simply with a form.
- Sending user options for workout generation is weighted as **Simple (3)** due to the small amount of work required to pass data to our API.

4. **EO:**

- Generate and display workout is weighted as **Complex (15)** because of the effort that must be spent in designing a visually clear way to view and interact with the data.
- List past workouts is also **Complex (15)** for much of the same reasons.

5. **EQ:**

- None