

Service Layer Design Document Redux

Service Endpoints:

Outlined below are the end points required for the MVP of the Gift Exchange Organizer application. Error handling is built into the responses – most have both Boolean success indicators as well as textual messages, allowing for custom error messages to be displayed to the user.

End Point	Operation or Related Data	Request Type	Request	Response	Purpose
Data Validation					
	name/password	GET	/user/login	Login { success boolean message string }	Logs user into the system
	required field check	GET	/app/validate	Validate { success boolean message string }	Verifies required fields are populated
Data Creation					
	create user	POST	/user/create	CreateUser { success boolean message string }	Creates the user with default password
	related names	POST	/user/{groupname}/{username}/relatedadd	CreateRelation { success boolean message string }	Creates a related user record
	wish list item	POST	/user/{groupname}/{username}/wishlist/create	CreateWLRecord { success boolean message string }	Creates a wish list record
	create match	POST	/user/{groupname}/{username}/match	CreateMatch { UserID integer }	Creates a match record, returns the user ID
Data Update					
	related names	PUT	/user/{groupname}/{username}/relatedupdate	UpdateRelation { success boolean message string }	Updates a related user record
	wish list item	PUT	/user/{groupname}/{username}/wishlist/update	UpdateWLRecord { success boolean message string }	Updates a wish list record
Data Retrieval					
	user's profile data	GET	/user/{groupname}/{username}/profile	GetProfile { UserID integer Name string Email string Group string Sibling_Peer string Parent_Manager string Child_Employee string }	Gets the user's profile data
	relationships based on Group	GET	/user/{groupname}/{username}/relationships	GetRelation { UserID integer Group string Sibling_Peer string Parent_Manager string Child_Employee string }	Gets the user's relationship data
	wish list based on Group and User Name	GET	/user/{groupname}/{username}/wishlist	GetWLRecord { ID integer UserID integer UserGroup string Item string }	Gets the user's wish list

Persona Interactions:

The user personas created for this project include:

- The Grandma Type, whose goal is to create a user profile
- The Mom Type, whose goal is to draw a name, print the wish list and mark an item as purchased
- The Brother Type, whose goal is to update his wish list for both work and family events

To create a user profile, the Grandma Type would use a POST request to the CreateUser method. Required fields include Name, E-mail and Password, the latter two of which constitute the login credentials. The Mom Type would also use a POST request to draw a name. This would activate the CreateMatch method, returning the UserID of the match. The page then uses a GET method to call the GetWLRecord method, which returns the match's wish list data. Once the Stretch Feature is implemented, the Mom Type would also use a POST request to mark a wishlist item as purchased. Finally, to update his wish list, the Brother Type would simply use a PUT statement to initiate the UpdateWLRecord method.



