

Service Layer for Flexible Cookbook App

The service layer will consist of a program capable of providing the user interface with appropriate data dynamically. The endpoints that will be used are illustrated in the table that follows. Also there are additional endpoints listed for the stretch feature, which is for image functionality.

Endpoint	http Action	Description	
/user/enroll/{userId}	POST	Register a new user	
/user/{userId}/recipelists	GET	Returns a list of the user's recipes	
/recipes/{userId}/{recipeId}	POST	Adds a new recipe to the user's database	
/recipes/{recipeId}	PUT	Changes an existing recipe	
/recipes/{recipeId}	DELETE	Removes a recipe from the user's database	
/recipes/{recipeId}	GET	Returns a JSON file of the specified recipe	
/conversion/lookup	GET	Returns the JSON list of conversion factors	
/user/delete/{userId}	DELETE	Removes a user's profile and recipes	
/recipes/{recipeId}/images/{name}	GET	Returns the specified image	Stretch
/recipes/{recipeId}/images/{name}	DELETE	Removes the specified image	Stretch
/recipes/{recipeId}/images/{name}	POST	Adds an image to the database	Stretch

Some examples of successful and failed requests and responses are illustrated in the following table:

Request	Response	Status
http://localhost:8080/user/enroll?name=john	{ "result": "userid" : "001", "name": "john" }	Success
http://localhost:8080/user/enroll?name=john	{ "error": "Message": "Username already exists." }	Failure
http://localhost:8080/john/recipeList	{ "result": "recipes": ["Pie", "White Bread", "Pizza"] }	Success
http://localhost:8080/jason/recipeList	{ "error": "Message": "Cannot find specified user." }	Failure
http://localhost:8080/user/recipe/insert?name=Cake&id=002&ingredients=[flour=3.5&yeast=0.002]	{ "result": "recipe added" }	Success
http://localhost:8080/john/recipe/edit?name=Cake&id=002&ingredients=[flour=5.5&yeast=0.005]	{ "result": "recipe updated" }	Success
http://localhost:8080/john/recipe/delete?name=Cake&id=002	{ "result": "recipe deleted" }	Success

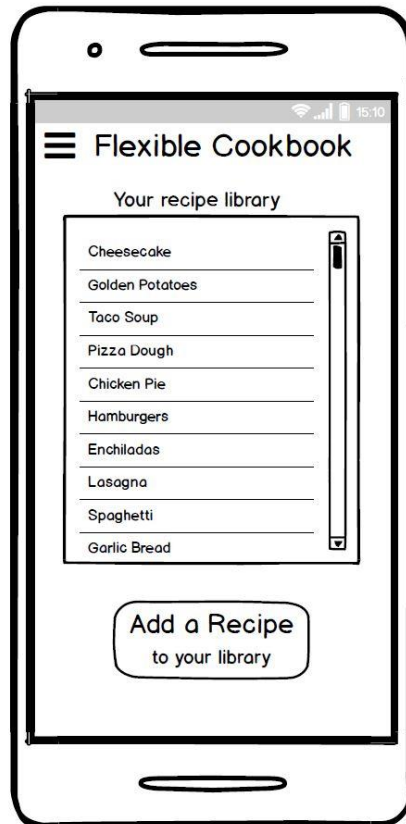
Request	Response	Status
http://localhost:8080/john/recipe/delete?name=Cake&id=002	{ "error": "recipe does not exist" }	Failure
http://localhost:8080/conversion/lookup	{ "result":{ "Cup": "1.00", "Pint": "2.00", "Quart": "4.00", "Gallon": "16.00", "Ounce": "0.125" } }	Success
http://localhost:8080/conveersion/lookup	{ "error": "Bad request" }	Failure
http://localhost:8080/john/delete	{ "result": "user deleted" }	Success
http://localhost:8080/recipes/005/images/insert?name=Perfect&location=images/image2.jpg	{ "result": "image added to recipe" }	Success (STRETCH FEATURE)
http://localhost:8080/recipes/005/images/insert?name=Perfect&location=images/image3.jpg	{ "error": "image name already exists for this recipe" }	Failure (STRETCH FEATURE)
http://localhost:8080/recipes/005/images/get?name=Perfect&location=images/image3.jpg	{ "result": "images/image2.jpg" }	Success (STRETCH FEATURE)
http://localhost:8080/recipes/005/images/delete?name=Perfect&location=images/image3.jpg	{ "result": "image deleted" }	Success (STRETCH FEATURE)

The following diagrams show which pages will interact with which endpoints:

Home Page

Endpoints:

/user/recipeList

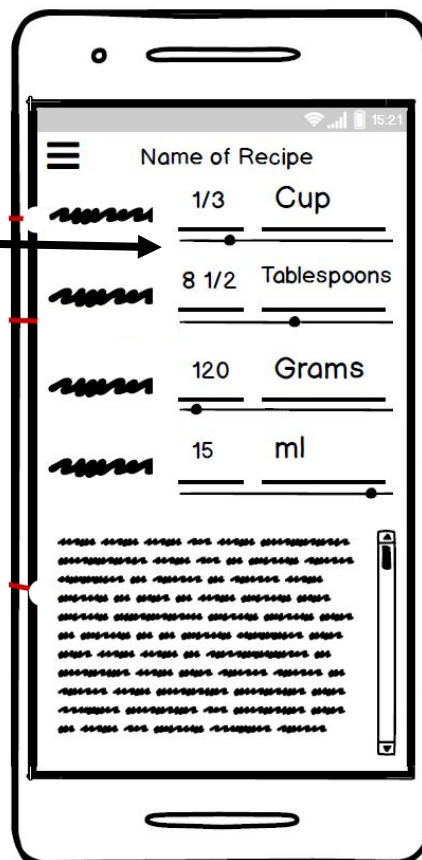
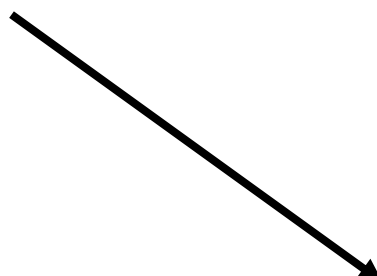


Recipe Viewing Page

Endpoints:

/conversion/lookup

/user/recipeid



Recipe Input Page

Endpoints:

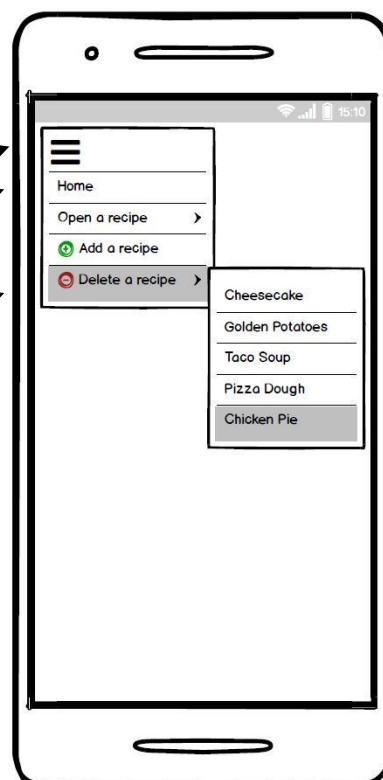
`/user/recipe/insert`
`/user/recipe/edit`

Ingredient	Qty	Unit of measur
Flour	4	Cup
Sugar	1/3	Cup
Vanilla	6	ml

Menu Expanded

Endpoints:

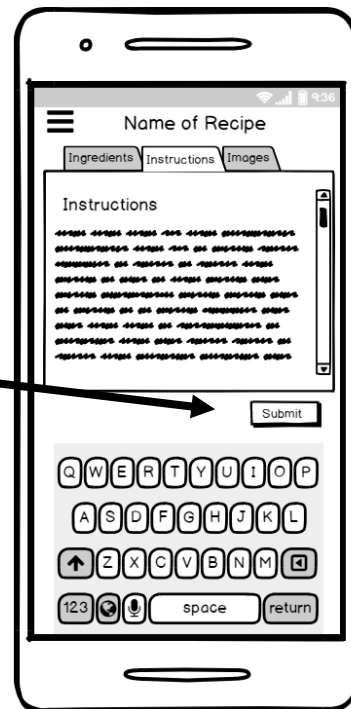
`/user/enroll`
`/user/delete`
`/user/recipe/delete`



Recipe Input Page

Endpoints:

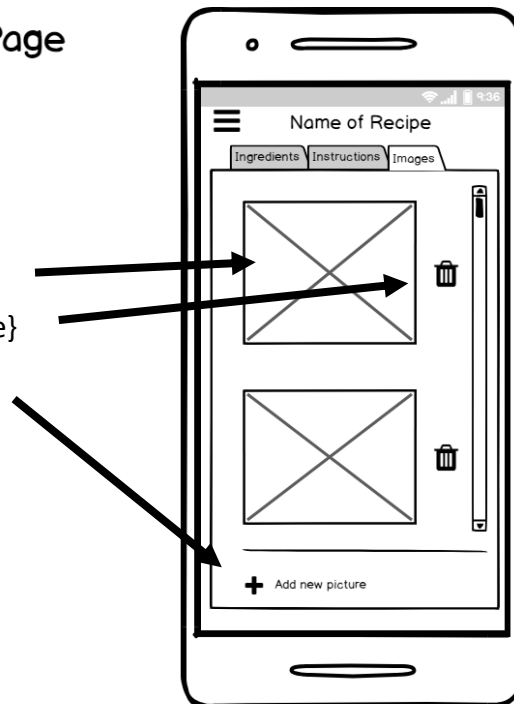
`/user/recipe/insert`
`/user/recipe/edit`



Recipe Input Page

Endpoints:

`/recipes/{recipeId}/images/{name}`



This page is part of the Stretch Feature