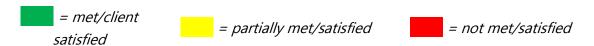
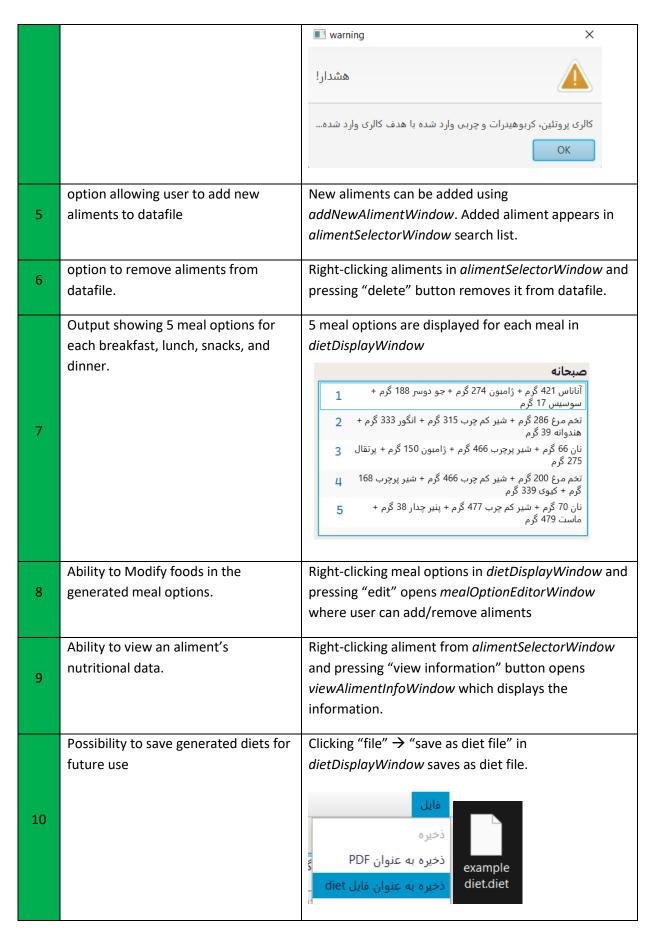
Criterion E: Evaluation

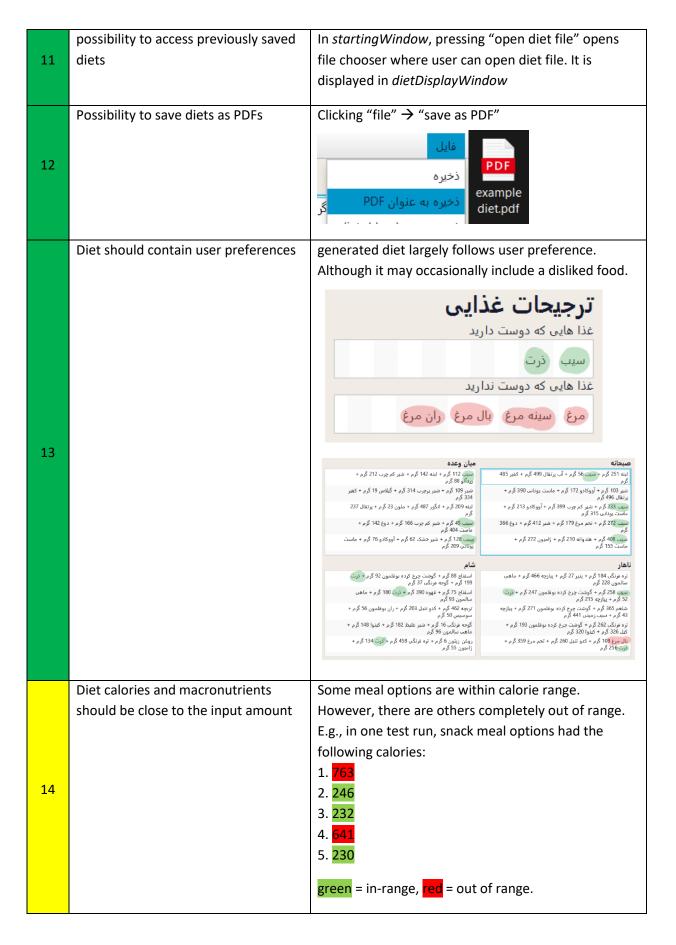
* Results obtained based on Unit, Integration, and Dry-Run testing. Throughout file, client comments from interview 3 (appendix) have been considered.



No.	Success Criteria	Result
1	Input allowing user to choose food preferences (likes, dislikes) from list of aliments.	Clicking on preference inputs opens alimentSelectorWindow غذا هایی که دوست ندارید غذا هایی که دوست ندارید
2	When choosing foods from the list, there should be search and filter options. User should be able to search for desired food or filter undesirable ones.	alimentSelectorWindow has search and meal filter options. وجستجو
3	input to manually enter calorie target or use built-in calculator to automatically calculate target.	goalsCalculatorWindow opens. Given input: Male, 25, 180 cm, 65 kg, 4-5 times weekly exercise, maintain weight Calorie output: 2,425 Online calculator output ¹ : 2,425
4	input for Macronutrient in grams. calories of specified macronutrients must add up to calorie target.	Inputs exist on <i>dietCreationWindow</i> . Text input is not allowed. If macronutrient calories don't match specified target, warning is displayed (گرم) کرب (گرم) چربی (گرم) کرب (گرم) عرب (گرم) کرب (گرم) عرب (

¹ <u>https://www.calculator.net/calorie-calculator.html</u>





Recommendations for Further Development (with regards to Client comments in appendix interview 3)

Major improvements

Meal options out of range: As mentioned in success criteria, some meal options fall outside appropriate calorie range. This is because the genetic algorithm in rare cases doesn't converge and after 10,000 max iterations returns a bad meal option.

Repetition: some meal options contain repeated aliments and are like each other. This decreases variety within diet.

Insignificant aliments: sometimes meal options contain trivial aliments. E.g., 5 grams of apple. It would be better to not include those altogether.

Moderate improvements

Limited aliments: the datafile contains limited number of aliments. This can be improved by time as client adds more aliments.

Odd recommendations: client mentioned some meal option recommendations are odd, although they can be modified, it would be better to improve algorithm to generate better meal options.

Word count (excluding headings and footers): 521