# Dear  Students

I hope you are well and busy in your finals and relaxed after the completion of CS564.

I need one more favour from you before formally closing the CS564. I need you to fill in a survey form that will help us in our research. Please consider this as P6 part of Project with [5+5 Marks].

This is a simple exercise and will not take more than 30 minutes of your time. You do not have to write any code. Instead you have to review certain code recommendations by looking at the code snippets and rank them.

Imagine that you are developing a Java-based Android application and you have written code within a method to implement a certain feature of your application. For example, you have written a method to implement the feature to play music while developing a Music Player application. Based on your method, our system generates top 5 related method recommendations for you. You are requested to evaluate the relevancy of the top 5 system recommended methods, i.e. you have to see whether the recommendations are relevant for the application you are developing. You will also need to write a short feature description for the methods you evaluate. To understand the feature being implemented by a method, you may look at the name of the method, its comments (if any), its API calls, other variables and the overall semantics.

You need to input your evaluation response in the following Google form:

<https://forms.gle/D5ePcvbouZh312Xo6>

|  |  |
| --- | --- |
| [https://lh3.googleusercontent.com/MGdOwphuQwtIua_YARGLMrpkctL1869ts58AOGV9OeP1zZpjF49jUYr2GLkfTvaVg08vDcs=w1200-h630-p](https://forms.gle/D5ePcvbouZh312Xo6) | [FACER Code Recommender System Evaluation](https://forms.gle/D5ePcvbouZh312Xo6)  We are currently evaluating our Java code recommendation system called FACER. Help us differentiate relevant code recommendations from irrelevant ones! (You will not have to write any code). Estimated completion time is 15 minutes! You need to have access to the Evaluation Package and Allocation.xls file to perform this evaluation. Detailed evaluation instructions are included in the Evaluation Instructions file in the Evaluation Package.  forms.gle |

The form will first get your profile and background information, secondly it will capture your evaluation response and finally some optional comments and honour pledge.

At the bottom of this email a list of scenario files is given.  Only two files for each of you. The files are attached in zip format.

Steps to perform evaluation

1. Open the two scenario files assigned to you in any text or code editor.
2. Your scenario file will have the following data:
   1. Evaluation ID
   2. Application category name
   3. Your method's feature description
   4. Your method's body (followed by its constituent API calls for readability)
   5. Top 5 related method recommendations
3. Open the Google form and after filling your profile data in Section 1 of the form go to Section 2.
4. In your scenario file, copy the Evaluation ID and input in the Google form.
5. In your scenario file, read the application category for which you are evaluating related method recommendations
6. Next, read your method’s feature description and method body against which you are being shown related method recommendations
7. Next, evaluate the relevance of Recommendation 1 and input relevance (yes/no/maybe/not applicable) in the Google form along with a short feature description of the recommended method evaluated.
8. Repeat for the remaining recommendations.
9. Go to Section 3 of the Google form and after completing it submit the form.

**Note**: Choose not applicable(N/A) only when there is no recommendation available.

Please note that your feedback is highly valuable support for our research work and will help us evaluate the performance of our prototype code recommendation tool FACER. We will appreciate if you could perform the evaluation and fill the survey with thorough professional approach.

I understand that it is relatively a short notice however it will be a great help if you are able to fill this online survey form by midday Wednesday 13th May 2020.

If you have any queries while filling the form please contact Shamsa Abid, "Shamsa Abid" <15030049@lums.edu.pk>.

Thank you for all your help and being part of our study!

Stay safe.

Wish you a blessed Ramazan.

Best regards

Shafay Shamail

# FACER Code recommender system evaluation

(Add your text here). We are currently evaluating our Java code recommendation system called FACER. Help us differentiate relevant code recommendations from irrelevant ones! (You will not have to write any code).

## Evaluation Instructions:

Imagine that you are developing a Java-based Android application and you have written code within a method to implement a certain feature of your application. For example, you have written a method to implement the feature to play music while developing a Music Player application. Based on your method, our system generates top 5 related method recommendations for you. You are required to evaluate the relevancy of the top 5 system recommended methods, i.e. you have to see whether the recommendations are relevant for the application you are developing. You also have to write a short feature description for the methods you evaluate. To understand the feature being implemented by a method, you may look at the name of the method, its comments (if any), its API calls, other variables and the overall semantics.

You need to input your evaluation response in the following Google form:

https://forms.gle/D5ePcvbouZh312Xo6

The form will first get your profile and background information, secondly it will capture your evaluation response and finally some optional comments and honor pledge. Those assigned more than one evaluation scenario need to fill the form for each scenario.

Estimated completion time is 15 minutes!

### Steps to perform evaluation

1. Open the Allocation.xls file provided in the Evaluation Package. Locate the name(s) of evaluation scenario file(s) assigned to you against your name.
2. Open the scenario file(s) assigned to you in any text or code editor.
3. Your scenario file will have the following data:
   1. Evaluation ID
   2. Application category name
   3. Your method's feature description
   4. Your method's body (followed by its constituent API calls for readability)
   5. Top 5 related method recommendations
4. Open the Google form and after filling your profile data in Section of the form go to Section 2.
5. In your scenario file, copy the Evaluation ID and input in the Google form.
6. In your scenario file, read the application category for which you are evaluating related method recommendations
7. Next, read your method’s feature description and method body against which you are being shown related method recommendations
8. Next, evaluate the relevance of Recommendation 1 and input relevance(yes/no/maybe/not applicable) in the Google form along with a short feature description of the recommended method evaluated.
9. Repeat Step 8 for the remaining recommendations.
10. Go to section 3 of the Google form and after completing it submit the form.

**Note**: Choose *not applicable(N/A)* only when there is no recommendation available

**Note**: Please keep in mind that the results of this study are intended for scientific publication. We expect you to perform the evaluation with honesty and professionalism.

Thank you for being part of our study!