

1 **CS252 Object-Oriented Programing with Java (Zaring)**

2 **Fall 2021**

3 **Project Phase 10**

4 **Presentation and code due by 8:00am on Tuesday, December 14 – NO LATE**

5 **SUBMISSIONS ACCEPTED**

6 **Report due by 8:00am on Tuesday, December 14 – NO LATE SUBMISSIONS**

7 **ACCEPTED**

8

9 This is a project-group assignment.

10

11 **Description:**

12 Complete your application, prepare a presentation, and prepare a report.

13

14 **The Presentation:**

15 The presentation is worth 15% of your course grade, so please take the presentation seriously and
16 create a professional-looking presentation. Running one or more practice presentations is
17 recommended. Your score on the presentation is largely independent of your score on the
18 implementation aspects of the project.

19

20 The groups will present in the following order (determined pseudo-randomly) at the following
21 times:

22

- 23 • Group 2: 8:00am-8:25am Tuesday, December 14
- 24 • Group 3: 8:30am-8:55am Tuesday, December 14 (or 5 minutes after Group 2 finishes,
25 whichever is earlier)
- 26 • Group 4: 9:00am-9:25am Tuesday, December 14 (or 5 minutes after Group 3 finishes,
27 whichever is earlier)
- 28 • Group 1: 9:30am-9:55am Tuesday, December 14 (or 5 minutes after Group 4 finishes,
29 whichever is earlier)

30

31 Each group will have up to 25 minutes for its presentation. Every member of a group must play
32 a substantial part in the verbal portion of the group's presentation; it's not acceptable for one
33 person to conduct the application demonstration and do nothing else.

34

35 The presentation should assume that the audience knows the material from CS252 and the
36 VM252 material, but does not know anything about the specific nature of the final project, so it
37 will be your first job to explain (briefly) what the goals, requirements, etc. of the project are.

38

39 **The presentation should discuss the major aspects of the group's final report**, talking about how
40 the application is designed, implemented, etc. It's up to each group to decide what its major
41 talking points should be, but the point is to show

42

- 43 • That the group has built a functioning application
- 44 • Where, if anywhere, the final version of the application falls short of the minimal
45 requirements for the project (i.e., features that work imperfectly, features that have been
46 coded but are non-functional, features that haven't been addressed at all)

- Where, if anywhere, the final version of the application goes beyond the minimal requirements for the project
- That everyone in the group participated in a substantial way
- That everyone in the group understands the overall structure of the application, which Swing (and related) classes were used, etc.
- That the group collectively understands Java programming, software construction, the use of the relevant libraries, and GUI programming
- That the group collectively understands and used design patterns and programming frameworks, especially the Model-View-Controller framework, in the design and implementation of its application

The presentation should involve some sort of slide show and a demonstration of the application.

Whatever machines you use for your presentation will have to be hooked up to the data projector in Olin 202 for your presentation and will thus need to be able to accept a male HDMI connector or a male VGA connector. If your group's machines can accept only USB-C, DisplayPort, Lightning, or other connectors, you'll need to bring appropriate adapters with you. (The Media Center should be able to provide you with any needed adapters, as long as you get them sufficiently in advance.)

The Report:

Each group should submit a PDF version of a professional-quality word-processed document containing

- How-to-use-it instructions for your application, ideally with annotated diagrams/pictures (a video demonstration is not acceptable)
- A description of how the minimum requirements for the assignment have been met or not met (i.e., the capabilities of the `aa`, `ap`, `amb`, `ba`, `h`, `mb`, `n`, `ob`, `q`, `r`, `s`, and `z` commands along with the capability of loading an object file for execution have been provided), with particular mention of all the aspects of the `r` command (see lines 40-52 of the Phase 4 handout)
- Mention of any of any capabilities above the minimum requirements that have been provided (e.g., the capabilities of the `bl`, `mi`, and `oi` commands)
- A description of the roles and contributions of each of the members of the group over the lifetime of the project.
- A list of which standard or third-party libraries the application uses, with an explanation of the purpose of third-party libraries
- A family-tree diagram of the class relationships of the classes the group defined for its code
- A discussion of how and where any design patterns and idioms (especially Model-View-Controller) are reflected in the application's design
- Any other original coding in the application not related to assembling components for and interfacing with the GUI
- How any persistent information (i.e., information that must survive across multiple executions of your application), if any, is handled by your application
- Any other special design or implementation features of the final application the group feels should be pointed out

93

94 **What to Hand In:**

95 • Each group should submit (via the Phase 10 item on the Project page of the CS252 Katie
96 course)

97 ♦ A zip bundle its all associated .java files the group produced

98 ♦ A PDF of a professional-quality document containing

99 ▪ The revision number of your repository I should use to retrieve the files for this phase
100 of the project

101 ▪ A detailed progress report of the work you've done, any changes you've made to your
102 initial plans, anything that is working, anything that isn't working, problems you're
103 encountering, etc. and a log showing the days and times each group member worked on
104 this phase of the project.

105 ♦ A PDF copy of any slides you use in your presentation

106 • Each group should submit (via the Phase 10 Report item on the Project page of the
107 CS252 Katie course) a PDF of a professional-quality document containing your final report