1 **CS252 Object-Oriented Programing with Java (Zaring)**
2 **Fall 2021**
3 **Project Phase 10**
4 <mark>**Presentation and code due by 8:00am on Tuesday, December 14 – NO LATE**</mark>
5 <mark>**SUBMISSIONS ACCEPTED**</mark>
6 <mark>**Report due by 8:00am on Tuesday, December 14 – NO LATE SUBMISSIONS**</mark>
7 <mark>**ACCEPTED**</mark>
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)

47 • Where, if anywhere, the final version of the application goes beyond the minimal
48   requirements for the project
49 • That everyone in the group participated in a substantial way
50 • That everyone in the group understands the overall structure of the application, which
51   Swing (and related) classes were used, etc.
52 • That the group collectively understands Java programming, software construction, the use
53   of the relevant libraries, and GUI programming
54 • That the group collectively understands and used design patterns and programming
55   frameworks, especially the Model-View-Controller framework, in the design and
56   implementation of its application
57
58 The presentation should involve some sort of slide show and a demonstration of the application.
59
60 Whatever machines you use for your presentation will have to be hooked up to the data projector
61 in Olin 202 for your presentation and will thus need to be able to accept a male HDMI connector
62 or a male VGA connector. If your group's machines can accept only USB-C, DisplayPort,
63 Lightning, or other connectors, you'll need to bring appropriate adapters with you. (The Media
64 Center should be able to provide you with any needed adapters, as long as you get them
65 sufficiently in advance.)
66
67 **The Report:**
68 Each group should submit a PDF version of a professional-quality word-processed document
69 containing
70
71 • How-to-use-it instructions for your application, ideally with annotated diagrams/pictures (a
72   video demonstration is not acceptable)
73 • A description of how the minimum requirements for the assignment have been met or not
74   met (i.e., the capabilities of the `aa`, `ap`, `amb`, `ba`, `h`, `mb`, `n`, `ob`, `q`, `r`, `s`, and `z` commands
75   along with the capability of loading an object file for execution have been provided), with
76   particular mention of all the aspects of the `r` command (see lines 40-52 of the Phase 4
77   handout)
78 • Mention of any of any capabilities above the minimum requirements that have been
79   provided (e.g., the capabilities of the `bl`, `mi`, and `oi` commands)
80 • A description of the roles and contributions of each of the members of the group over the
81   lifetime of the project.
82 • A list of which standard or third-party libraries the application uses, with an explanation of
83   the purpose of third-party libraries
84 • A family-tree diagram of the class relationships of the classes the group defined for its code
85 • A discussion of how and where any design patterns and idioms (especially
86   Model-View-Controller) are reflected in the application's design
87 • Any other original coding in the application <u>not</u> related to assembling components for and
88   interfacing with the GUI
89 • How any persistent information (i.e., information that must survive across multiple
90   executions of your application), if any, is handled by your application
91 • Any other special design or implementation features of the final application the group feels
92   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 <mark>a log showing the days and times each group member worked on</mark>
104   <mark>this phase of the project.</mark>
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