

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

2 **Fall 2022**

3 **Project Phase 4**

4 **Due by 5:00pm on Monday, November 14**

5 **No late assignments accepted**

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7 **This phase is a project-group assignment.**

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9 **Description:**

10 Firm up the appearance of the GUI and the internals of your application enough so that at least

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- 12 • The appearance of your running application is in almost-final form (as far as you can tell at
- 13 this point). This proto-version of your application can still be something of a mockup (e.g.,
- 14 many of the menu items/buttons may not function, display areas may not show anything,
- 15 etc.).
- 16 • As many of the following features as possible have been added
 - 17 • A modeled VM252 is largely in place
 - 18 • The view of the modeled accumulator and program counter are kept up to date as a
 - 19 program is executed
 - 20 • The contents of the modeled accumulator and program counter can be altered
 - 21 • An object file (perhaps an object file having a hardwired name) can be executed

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23 **Support Materials:**

24 You'll receive a group of Java packages to support this and subsequent phases of the project.

25 They include:

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- 27 • `demonstration`, containing files collectively demonstrating using the support code to
- 28 implement a very simple model-view-controller simulator for the VM252 (The main class
- 29 is defined in the file `Demonstration.java`.)
- 30 • `observation`, containing files collectively defining the Observer design pattern
- 31 • `vm252architecturespecifications`, containing a sample solution to Phase 1
- 32 • `vm252simulation`, containing files collectively defining a foundation for a
- 33 model-view-controller implementation of the VM252
- 34 • `vm252utilities`, containing a file having a class that provides a method for reading in
- 35 VM252 object-code files

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37 (At the end of this handout you'll find a diagram showing the relationships among the classes

38 defined in the packages.)

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40 **What to Hand In:**

- 41 • A zip/gzip/tgz bundle containing all the .java files for your application, submitted via the
42 Phase 4 item on the Project page of the CS252 Katie course
- 43 • A PDF of a professional-quality document, submitted via the Phase 4 item on the Project
44 page of the CS252 Katie course, containing
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- 46 • A link to a private GitHub repository (for which you'll have to give access to
47 akzaring@luther.edu) where I can obtain your application/files
- 48 • The revision number of your repository that I should use to retrieve the files for this phase
49 of the project
- 50 • A detailed progress report of the work you've done
- 51 • Any changes you've made to your initial plans
- 52 • A summary of what features are working
- 53 • A summary of the features that are yet to work
- 54 • A summary of any technical and/or organizational problems you're encountering
- 55 • For each group member, a log showing the days and times they worked on this phase of the
56 project
- 57

58 The Support Classe Relationships:

