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Milestone 2: CI Server [Extra Credit]

Please note that a more complete description of our CI server is included in milestone2lessons.pdf.

I. Jenkins Homepage

Figure 1 shows the homepage of our CI server running Jenkins.

The screenshot shows the Jenkins homepage. At the top, there's a header with the Jenkins logo, a search bar, and the user 'D'Buggers Admin' with a 'log out' link. Below the header, there's a sidebar on the left with links to 'New Item', 'People', 'Build History', 'Manage Jenkins', 'My Views', 'Lockable Resources', 'Credentials', and 'New View'. The main content area displays a table of builds. The table has columns for 'S' (Success), 'W' (Warning), 'Name', 'Last Success', 'Last Failure', and 'Last Duration'. There are three builds listed, all with a green success icon. Below the table, there's a 'Build Queue' section showing 'No builds in the queue.' and a 'Build Executor Status' section showing two executors in an 'Idle' state. At the bottom, there are links for 'Legend', 'RSS for all', 'RSS for failures', and 'RSS for just latest builds'.

S	W	Name ↓	Last Success	Last Failure	Last Duration
🟢	☀️	Battleship	4 min 0 sec - #38	3 days 20 hr - #9	9.9 sec
🟢	☀️	Battleship - JUnit Tests	3 min 40 sec - #47	1 day 18 hr - #38	1.2 sec
🟢	☀️	Battleship - Stress Test	3 min 30 sec - #23	4 min 25 sec - #22	2 min 7 sec

Build Queue: No builds in the queue.

Build Executor Status:

- 1 Idle
- 2 Idle

Figure 1. Jenkins Homepage

II. Battleship

Figure 2 shows our “Battleship” job that builds the project and associated JUnit test cases.

The screenshot displays the Jenkins web interface for a job named "Project Battleship". The top navigation bar includes the Jenkins logo, a search bar, and user information "D'Buggers Admin | log out". Below the navigation bar, the left sidebar contains links for "Back to Dashboard", "Status", "Changes", "Workspace", "Build Now", "Delete Project", "Configure", "GitHub Hook Log", "GitHub", and "Rename". The main content area is titled "Project Battleship" and includes a description: "Builds the Battleship Java project hosted in GitHub for CPSC-5210-01.". To the right of the description are links for "edit description" and a "Disable Project" button. The "Workspace" section shows a folder icon and a link to "Last Successful Artifacts". Below this, a table lists the artifacts:

Artifact Name	Size	Action
Battleship.class	6.43 KB	view
Grid.class	4.22 KB	view
GridTest.class	3.82 KB	view
Location.class	1.32 KB	view
LocationTest.class	2.43 KB	view
Player.class	1.15 KB	view
Randomizer.class	946 B	view
Ship.class	1.63 KB	view
ShipTest.class	3.44 KB	view

Below the artifacts table is a "Recent Changes" section with a notepad icon. The "Downstream Projects" section shows a single project: "Battleship - JUnit Tests". The "Permalinks" section provides a list of links for various build states:

- [Last build \(#38\), 5 min 43 sec ago](#)
- [Last stable build \(#38\), 5 min 43 sec ago](#)
- [Last successful build \(#38\), 5 min 43 sec ago](#)
- [Last failed build \(#9\), 3 days 20 hr ago](#)
- [Last unsuccessful build \(#9\), 3 days 20 hr ago](#)
- [Last completed build \(#38\), 5 min 43 sec ago](#)

The "Build History" section on the left shows a list of builds with their status (green circle for success, red circle for failure) and timestamps:

Build Number	Timestamp
#38	Jun 6, 2019 9:43 PM
#37	Jun 6, 2019 9:43 PM
#36	Jun 6, 2019 9:33 PM
#35	Jun 6, 2019 9:17 PM
#34	Jun 6, 2019 5:51 AM
#33	Jun 6, 2019 4:14 AM
#32	Jun 5, 2019 3:42 AM
#31	Jun 5, 2019 3:38 AM
#30	Jun 5, 2019 3:14 AM

Figure 2. Battleship Project

III. Battleship - JUnit Tests

Figure 3 shows our “Battleship – JUnit Tests” job that runs our test suite (runTestSuite.sh).

Jenkins search D'Buggers Admin | log out

Jenkins > Battleship - JUnit Tests [DISABLE AUTO REFRESH](#)

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Workspace](#)

[Build Now](#)

[Delete Project](#)

[Configure](#)

[Rename](#)

Build History [trend](#)

Build Number	Status	Timestamp
#47	Success	Jun 6, 2019 9:44 PM
#46	Success	Jun 6, 2019 9:43 PM
#45	Success	Jun 6, 2019 9:33 PM
#44	Success	Jun 6, 2019 9:17 PM
#43	Success	Jun 6, 2019 5:51 AM
#42	Success	Jun 6, 2019 4:14 AM
#41	Success	Jun 5, 2019 3:43 AM
#40	Success	Jun 5, 2019 3:38 AM
#39	Success	Jun 5, 2019 3:14 AM
#38	Failure	Jun 5, 2019 2:59 AM

Project Battleship - JUnit Tests

Runs the J-Unit test suite for the Battleship project.

[edit description](#)

[Disable Project](#)

[Workspace](#)

[Last Successful Artifacts](#)

- [README.txt](#) 391 B [view](#)
- [runTestSuiteLog.txt](#) 5.85 KB [view](#)

[Recent Changes](#)

Upstream Projects

- [Battleship](#)

Downstream Projects

- [Battleship - Stress Test](#)

Permalinks

- [Last build \(#47\), 6 min 51 sec ago](#)
- [Last stable build \(#47\), 6 min 51 sec ago](#)
- [Last successful build \(#47\), 6 min 51 sec ago](#)
- [Last failed build \(#38\), 1 day 18 hr ago](#)
- [Last unsuccessful build \(#38\), 1 day 18 hr ago](#)
- [Last completed build \(#47\), 6 min 51 sec ago](#)

Figure 3. Battleship - JUnit Tests Project

IV. Battleship – Stress Test

Figure 4 shows our “Battleship – Stress Test” job that runs our stress test script (stressTestApp.sh).

Jenkins search D'Buggers Admin | log out

Jenkins > Battleship - Stress Test [DISABLE AUTO REFRESH](#)

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Workspace](#)

[Build Now](#)

[Delete Project](#)

[Configure](#)

[Rename](#)

Build History [trend](#)

Build Number	Timestamp
#23	Jun 6, 2019 9:44 PM
#22	Jun 6, 2019 9:43 PM
#21	Jun 6, 2019 9:33 PM
#20	Jun 6, 2019 9:22 PM
#19	Jun 6, 2019 9:17 PM
#18	Jun 6, 2019 5:51 AM
#17	Jun 6, 2019 4:14 AM
#16	Jun 5, 2019 3:43 AM
#15	Jun 5, 2019 3:39 AM
#14	Jun 5, 2019 3:14 AM
#13	Jun 5, 2019 2:59 AM
#12	Jun 5, 2019 2:56 AM
#11	Jun 5, 2019 1:19 AM

Project Battleship - Stress Test

Runs the stress test suite for the Battleship project.

[edit description](#)

[Disable Project](#)

[Workspace](#)

[Last Successful Artifacts](#)

Artifact Name	Size	Action
README.txt	391 B	view
runTestSuiteLog.txt	318.08 KB	view
stressTestLog_1.txt	63.24 KB	view
stressTestLog_2.txt	63.24 KB	view
stressTestLog_3.txt	63.24 KB	view
stressTestLog_4.txt	63.24 KB	view
stressTestLog_5.txt	63.24 KB	view
stressTestLog_combined.txt	316.18 KB	view
stressTestLog_main.txt	1.16 KB	view

[Recent Changes](#)

Upstream Projects

- [Battleship - JUnit Tests](#)

Permalinks

- [Last build \(#23\), 7 min 53 sec ago](#)
- [Last stable build \(#23\), 7 min 53 sec ago](#)
- [Last successful build \(#23\), 7 min 53 sec ago](#)
- [Last failed build \(#22\), 8 min 48 sec ago](#)
- [Last unsuccessful build \(#22\), 8 min 48 sec ago](#)
- [Last completed build \(#23\), 7 min 53 sec ago](#)

Figure 4. Battleship - Stress Test Project