

Submission Worksheet

Course: IT114-002-S2025

Assignment: IT114 Milestone 2 - RPS

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Status: Submitted | Worksheet Progress: 100%

Potential Grade: 10.00/10.00 (100.00%)

Received Grade: 0.00/10.00 (0.00%)

Grading Link: <https://learn.ethereallab.app/assignment/v3/IT114-002-S2025/it114-milestone-2-rps/grading/tdc28>

Instructions

1. Refer to Milestone2 of [Rock Paper Scissors](#)
 1. Complete the features
 2. Ensure all code snippets include your ucid, date, and a brief description of what the code does
 3. Switch to the Milestone2 branch
 1. `git checkout Milestone2`
 2. `git pull origin Milestone2`
 4. Fill out the below worksheet as you test/demo with 3+ clients in the same session
 5. Once finished, click "Submit and Export"
 6. Locally add the generated PDF to a folder of your choosing inside your repository folder and move it to Github
 1. `git add .`
 2. ``git commit -m "adding PDF"`
 3. `git push origin Milestone2`
 4. On Github merge the pull request from Milestone2 to main
 7. Upload the same PDF to Canvas
 8. Sync Local
 1. `git checkout main`
 2. `git pull origin main`
- Complete each section and task sequentially.
 - Review the details and validation criteria for each task.
 - Ensure subtasks are completed before the parent task.

Section #1: (1 pt.) Payloads

Task #1 (1 pt.) - Show Payload classes and subclasses

Combo Task:

Weight: 100%

Objective: Show Payload classes and subclasses

Details:

- Reqs from the document
 - Provided Payload for applicable items that only need client id, message, and type
 - PointsPayload for syncing points of players
 - Each payload will be presented by debug output (i.e, properly override the toString() method like the lesson examples)

Image Prompt

Weight: 50%

Details:

- Show the code related to your payloads (Payload, PointsPayload, and any new ones added)
- Each payload should have an overridden toString() method showing its internal data

```
Project > Common > Payload.java > Payload
1 package project.common;
2
3 import java.util.HashMap;
4 import java.util.Map;
5
6 public class Payload {
7     private String clientId;
8     private String message;
9     private String type;
10
11     public Payload(String clientId, String message, String type) {
12         this.clientId = clientId;
13         this.message = message;
14         this.type = type;
15     }
16
17     public String getClientId() {
18         return clientId;
19     }
20
21     public String getMessage() {
22         return message;
23     }
24
25     public String getType() {
26         return type;
27     }
28
29     public void setClientId(String clientId) {
30         this.clientId = clientId;
31     }
32
33     public void setMessage(String message) {
34         this.message = message;
35     }
36
37     public void setType(String type) {
38         this.type = type;
39     }
40
41     @Override
42     public String toString() {
43         return "Payload{" +
44             "clientId='" + clientId + "', " +
45             "message='" + message + "', " +
46             "type='" + type + "' " +
47             '}';
48     }
49 }
```

public class Payload

```
Project > Common > Payload.java > Payload
1 package project.common;
2
3 import java.util.HashMap;
4 import java.util.Map;
5
6 public class Payload {
7     private String clientId;
8     private String message;
9     private String type;
10
11     public Payload(String clientId, String message, String type) {
12         this.clientId = clientId;
13         this.message = message;
14         this.type = type;
15     }
16
17     public String getClientId() {
18         return clientId;
19     }
20
21     public String getMessage() {
22         return message;
23     }
24
25     public String getType() {
26         return type;
27     }
28
29     public void setClientId(String clientId) {
30         this.clientId = clientId;
31     }
32
33     public void setMessage(String message) {
34         this.message = message;
35     }
36
37     public void setType(String type) {
38         this.type = type;
39     }
40
41     @Override
42     public String toString() {
43         return "Payload{" +
44             "clientId='" + clientId + "', " +
45             "message='" + message + "', " +
46             "type='" + type + "' " +
47             '}';
48     }
49 }
```

payloadtype.java

```
Project > Common > PointsPayload.java > PointsPayload
1 package project.common;
2
3 import java.util.HashMap;
4 import java.util.Map;
5
6 public class PointsPayload extends Payload {
7     private int points;
8
9     public PointsPayload(String clientId, String message, String type, int points) {
10         super(clientId, message, type);
11         this.points = points;
12     }
13
14     public int getPoints() {
15         return points;
16     }
17
18     public void setPoints(int points) {
19         this.points = points;
20     }
21
22     @Override
23     public String toString() {
24         return "PointsPayload{" +
25             "clientId='" + getClientId() + "', " +
26             "message='" + getMessage() + "', " +
27             "type='" + getType() + "', " +
28             "points=" + points + " " +
29             '}';
30     }
31 }
```

```

24     public void setPoints(int points) {
25         this.points = points;
26     }
27
28     @Override
29     public String toString() {
30         return "You, 1 days ago > " + this.points;
31     }
32 }

```

pointspayload.java

```

Project > Commons > TimerPayload.java > TimerPayload > TimerPayload()
1 package Project.Common;
2
3 You, 1 days ago > Author (You)
4 public class TimerPayload extends Payload {
5     private int time;
6     private TimerType timerType;
7
8     public TimerPayload() {
9         setPayloadType(PayloadType.TIME);
10    }
11
12    public int getTime() {
13        return time;
14    }
15
16    public TimerType getTimerType() {
17        return timerType;
18    }
19
20    public void setTimerType(TimerType timerType) {
21        this.timerType = timerType;
22    }
23
24    public void setTime(int time) {
25        this.time = time;
26    }
27 }

```

timerpayload

```

Project > Commons > RoomResultPayload.java > RoomResultPayload
1 package Project.Common;
2
3 You, 1 weeks ago > Author (You)
4 import java.util.ArrayList;
5 import java.util.List;
6
7 You, 1 weeks ago > Author (You)
8 public class RoomResultPayload extends Payload {
9     private List<String> rooms = new ArrayList<>();
10
11     public RoomResultPayload() {
12         setPayloadType(PayloadType.ROOM_RESULT);
13     }
14
15     public List<String> getRooms() {
16         return rooms;
17     }
18
19     public void setRooms(List<String> rooms) {
20         this.rooms = rooms;
21     }
22
23     @Override
24     public String toString() {
25         return super.toString() + "Rooms: [" + String.join(", ", rooms) + "]\n";
26     }
27 }

```

roomresultpayload.java

```

Project > Commons > ReadyPayload.java > ReadyPayload
1 package Project.Common;
2
3 You, 1 days ago > Author (You)
4 import Project.Common;
5
6 You, 1 days ago > Author (You)
7 public class ReadyPayload extends Payload {
8     private boolean isReady;
9
10    public ReadyPayload() {
11        setPayloadType(PayloadType.READY);
12    }
13
14    public boolean isReady() {
15        return isReady;
16    }
17
18    public void setReady(boolean isReady) {
19        this.isReady = isReady;
20    }
21
22    @Override
23    public String toString() {
24        return super.toString() + String.format("Ready: %s", isReady ? "ready" : "not ready");
25    }
26 }

```

readypayload.java

100%

Section #2: (4 pts.) Lifecycle Events

Task #1 (0.80 pts.) - GameRoom Client Add/Remove

Combo Task:

Weight: 20%

Objective: GameRoom Client Add/Remove

Image Prompt

Weight: 50%

Details:

- Show the `onClientAdded()` code
- Show the `onClientRemoved()` code

```
// (MinibotDoc) //
override
protected void onClientAdded(ServerThread sp) {
    // sync GameRoom state to new client
    syncCurrentPhase(sp);
    syncReadyStatus(sp);
    syncTurnStatus(sp);
    syncPlayerPoints(sp);
} // 438-55 protected void onClientAdded(ServerThread sp)

// (MinibotDoc) //
override
protected void onClientRemoved(ServerThread sp) {
    // added after Summer 2007 Demo
    // close the client so room can clean up
    LoggerUtil.getInstance().info("Player Removed, remaining " + mClientsInRoom.size());
    mClientsInRoom.remove(sp);
    resetReadyTimer();
    resetTurnTimer();
    resetRoundTimer();
    onSessionEnd();
} // 448-50 protected void onClientRemoved(ServerThread sp)
```

OnClientAdded & OnClientRemoved



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Text Prompt

Weight: 50%


Details:

- Briefly note the actions that happen in `onClientAdded()` (app data should at least be synchronized to the joining user)
- Briefly note the actions that happen in `onClientRemoved()` (at least should handle logic for an empty session)

Your Response:

OnClientAdded is called when a new client joins. It has syncCurrentPhase, syncReadyStatus, syncTurnStatus, and syncPlayerPoints, which makes sure the player is synced with the game

OnClientRemoved is called when the client leaves. It has clientsInRoom.isEmpty, resetReadyTimer, resetTurnTimer, and resetRoundTimer, it logs the removal of the player and whoever remains.

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Task #2 (0.80 pts.) - GameRoom Session Start

Combo Task:

Weight: 20%

Objective: *GameRoom Session Start*

Details:

- Reqs from document
 - First round is triggered
- Reset/set initial state

Image Prompt


Weight: 50%

Details:

- Show the snippet of `onSessionStart()`

```
Project > Server > J GameRoom.java > GameRoom > onClientAdded(ServerThread)
15 public class GameRoom extends BaseGameRoom {
16     private void resetTurnTimer() {
17         turnTimer = null;
18     }
19 }
20 // @70-75 private void resetTurnTimer()
21 // end timer handlers
22 // Lifecycle methods
23 /** @inheritDoc */
24 @Override
25 protected void onSessionStart() {
26     LoggerUtil.INSTANCE.info(messages:"onSessionStart() start");
27     changePhase(Phase.IN_PROGRESS);
28     round = 0;
29     LoggerUtil.INSTANCE.info(messages:"onSessionStart() end");
30     onRoundStart();
31 }
32 // @02-00 protected void onSessionStart()
33 /** @inheritDoc */
```

onSessionStart 

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Text Prompt

Weight: 50%

Details:

- Briefly explain the logic that occurs here (i.e., setting up initial session state for your project) and next lifecycle trigger

Your Response:

onSessionStart sets up the game, it switches the phase to IN_PROGRESS, resets the round counter to 0. It also calls on onRoundStart() which begins the next round.



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100%

Task #3 (0.80 pts.) - GameRoom Round Start

Combo Task:

Weight: 20%

Objective: *GameRoom Round Start*

Details:

- Reqs from Document
 - Initialize remaining Players' choices to null (not set)
 - Set Phase to "choosing"
 - GameRoom round timer begins

Image Prompt

Weight: 50%

Details:

- Show the snippet of `onRoundStart()`

```
99 // = @Before @Test =/  
100 @Before  
101 protected void onRoundStart() {  
102     LoggerUtil.log(Logger.INFO, "onRoundStart() - Start");  
103     resetRoundTimer();  
104     resetRoundTimer();  
105     round = 1;  
106     relay(ServletUtil, String.format(Locale.US, "Round %d has started", round));  
107     startRoundTimer();  
108     LoggerUtil.log(Logger.INFO, "onRoundStart() - End");  
109 }  
110
```

onRoundStart



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Text Prompt

Weight: 50%

Details:

- Briefly explain the logic that occurs here (i.e., setting up the round for your project)

Your Response:

onRoundStart, logs the start of a new round and resets the player statuses & timers. It also broadcasts a message to all the players telling them its a start of a new round, and uses the round timer.



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Task #4 (0.80 pts.) - GameRoom Round End

Combo Task:

Weight: 20%

Objective: *GameRoom Round End*

Details:

- Reqs from Document
 - **Condition 1:** Round ends when round timer expires
 - **Condition 2:** Round ends when all active Players have made a choice
 - All Players who are not eliminated and haven't made a choice will be marked as eliminated
 - Process Battles:
 - Round-robin battles of eligible Players (i.e., Player 1 vs Player 2 vs Player 3 vs Player 1)
 - Determine if a Player loses if they lose the "attack" or if they lose the "defense" (each Player has two battles each round)
 - Give a point to the winning Player
 - Points will be stored on the Player/User object
 - Sync the points value of the Player to all Clients
 - Relay a message stating the Players that competed, their choices, and the

result of the battle

- Losers get marked as eliminated (Eliminated Players stay as spectators but are skipped for choices and for win checks)
- Count the number of non-eliminated Players
 - If one, this is your winner (onSessionEnd())
 - If zero, it was a tie (onSessionEnd())
 - If more than one, do another round (onRoundStart())

Image Prompt

Weight: 50%

Details:


- Show the snippet of `onRoundEnd()`

```
124  /** @inheritDoc */
125  override
126  protected void onRoundEnd() {
127      LoggerUtil.INSTANCE.info(messages("onRoundEnd() start"));
128      resetRoundTimer(); // reset timer if round ended without the time expiring
129
130      LoggerUtil.INSTANCE.info(messages("onRoundEnd() end"));
131      if (round == 0) {
132          onRoundEnd();
133          ProcessBattles();
134      }
135      else {
136          onRoundStart();
137      }
138  }
139  // #126-130 protected void onRoundEnd()
140  }
```

onRoundEnd

```
141  /** @inheritDoc */
142  override
143  protected void onRoundEnd() {
144      LoggerUtil.INSTANCE.info(messages("onRoundEnd() start"));
145      resetRoundTimer(); // reset timer if round ended without the time expiring
146
147      LoggerUtil.INSTANCE.info(messages("onRoundEnd() end"));
148      if (round == 0) {
149          onRoundEnd();
150          ProcessBattles();
151      }
152      else {
153          onRoundStart();
154      }
155  }
156  // #126-130 protected void onRoundEnd()
157  }
```

ProcessBattles that is called in onRoundEnd

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Text Prompt

Weight: 50%

Details:

- Briefly explain the logic that occurs here (i.e., cleanup, end checks, and next lifecycle events)

Your Response:

onRoundEnd is called on when the round ends, it resets the timer and broadcasts the message that the round has ended. It also calls on processBattles, which updates scores at the end of a round/session, gives the winner a point & the other person none. it also updates the player on who won or not.



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100%

Task #5 (0.80 pts.) - GameRoom Session End

Combo Task:

Weight: 20%

Objective: *GameRoom Session End*

Details:

- Reqs from Document
 - **Condition 1:** Session ends when one Player remains (they win)
 - **Condition 2:** Session ends when no Players remain (this is a tie)
 - Send the final scoreboard to all clients sorted by highest points to lowest (include a game over message)
 - Reset the player data for each client server-side and client-side (do not disconnect them or move them to the lobby)
 - A new ready check will be required to start a new session

Image Prompt

Weight: 50%

Details:

- Show the snippet of `onSessionEnd()`

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onSessionEnd



```
1003 -- onSessionEnd: onSessionEnd is the deprecated method
1004 -- onSessionEnd(Phase, ENDED) // Assume onSessionEnd is the deprecated method
1005 -- onSessionEnd(Phase, ENDED) // Assume onSessionEnd is the deprecated method
1006 -- onSessionEnd(Phase, ENDED) // Assume onSessionEnd is the deprecated method
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1016 -- onSessionEnd(Phase, ENDED) // Assume onSessionEnd is the deprecated method
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1018 -- onSessionEnd(Phase, ENDED) // Assume onSessionEnd is the deprecated method
1019 -- onSessionEnd(Phase, ENDED) // Assume onSessionEnd is the deprecated method
```

endGame that is called in onSessionEnd



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Text Prompt

Weight: 50%

Details:

- Briefly explain the logic that occurs here (i.e., cleanup/reset, next lifecycle events)

Your Response:

onSessionEnd logs that the session is ended, clears & resets the ready statuses + the turn statuses of the players. It also resets the game phase and changes it back to READY. It calls on endGame, endGame changes the game phase to ENDED, creates a scoreboard to broadcast the scores and notifies the players that the game is ending and asks if they want to play again.



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100%

Section #3: (4 pts.) Gameroom User Action And State

100%

Task #1 (2 pts.) - Choice Logic

Combo Task:

Weight: 50%

Objective: Choice Logic

Details:

- Reqs from document
 - Command: `/pick <[r,p,s]>` (user picks one)
 - GameRoom will check if it's a valid option
 - GameRoom will record the choice for the respective Player
 - A message will be relayed saying that "X picked their choice"
 - If all Players have a choice the round ends

Image Prompt

Weight: 50%

Details:

- Show the code snippets of the following, and clearly caption each screenshot
- Show the Client processing of this command (process client command)
- Show the ServerThread processing of this command (process method)
- Show the GameRoom handling of this command (handle method)
- Show the sending/syncing of the results of this command to users (send/sync method)
- Show the ServerThread receiving this data (send method)
- Show the Client receiving this data (process method)

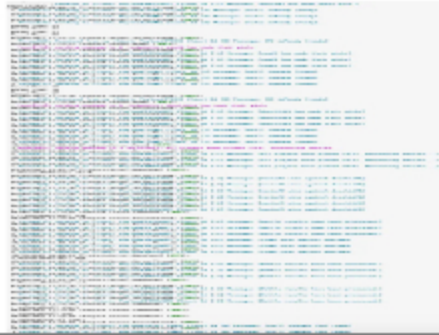
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Weight: 50%

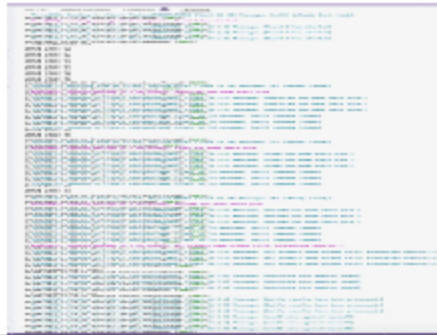
Objective: *Game Cycle Demo*

Details:

- Show examples from the terminal of a full session demonstrating each command and progress output
- This includes battle outcomes, scores and scoreboards, etc
- Ensure at least 3 Clients and the Server are shown
- Clearly caption screenshots



server demonstration screenshot 1



Section #4: (1 pt.) Misc

Task #1 (0.33 pts.) - Github Details

Combo Task:

Weight: 33.33%

Objective: *Github Details*

≡ Image Prompt

Weight: 60%

Details:


From the Commits tab of the Pull Request screenshot the commit history



commits tab (there should be more commits than this but for some reason the most recent ones aren't showing up)

```
trinitychatsmon@mac: ~/Documents/it114-002 % git add .
trinitychatsmon@mac: ~/Documents/it114-002 % git commit -m "Finally finished M2, submitting now"
On branch Milestone2
nothing to commit, working tree clean
trinitychatsmon@mac: ~/Documents/it114-002 % git pull origin Milestone2
From github.com:trinitydesayna/it114-002
+ branch
Milestone2 -> FETCH_HEAD
Already up-to-date.
trinitychatsmon@mac: ~/Documents/it114-002 % git push origin Milestone2
Everything up-to-date
trinitychatsmon@mac: ~/Documents/it114-002 % git push origin Milestone2
error: src refspec Milestone2 does not match any
error: src refspec 2 does not match any
error: failed to push some refs to 'github.com:trinitydesayna/it114-002.git'
trinitychatsmon@mac: ~/Documents/it114-002 % git push origin Milestone2
Everything up-to-date
trinitychatsmon@mac: ~/Documents/it114-002 % git pull origin Milestone2
From github.com:trinitydesayna/it114-002
+ branch
Milestone2 -> FETCH_HEAD
Already up-to-date.
trinitychatsmon@mac: ~/Documents/it114-002 % git add .
trinitychatsmon@mac: ~/Documents/it114-002 % git commit -m "Finished Milestone 2"
On branch Milestone2
nothing to commit, working tree clean
trinitychatsmon@mac: ~/Documents/it114-002 % git push origin Milestone2
Everything up-to-date
trinitychatsmon@mac: ~/Documents/it114-002 %
```

screenshot of me committing on terminal, but it wont show up on github

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 Url Prompt

Weight: 40%

Details:

Include the link to the Pull Request (should end in `/pull/#`)

URL #1



URL

100%

Task #2 (0.33 pts.) - WakaTime - Activity

 Image Prompt

Weight: 33.33%

Details:

Briefly answer the question (at least a few decent sentences)

Your Response:

I learned how to code more things than I knew before. I learned about different methods and how to code them. I also learned how all of the files connected or "Extended" one another.



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100%

Task #2 (0.33 pts.) - What was the easiest part of the assignr

≡ Text Prompt

Weight: 33.33%

Objective: *What was the easiest part of the assignment?*

Details:

Briefly answer the question (at least a few decent sentences)

Your Response:

The easiest part of the assignment was testing out to see if the code worked. using ./build.sh and dn/sh, it was fun to see how it all came together.



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100%

Task #3 (0.33 pts.) - What was the hardest part of the assignr

≡ Text Prompt

Weight: 33.33%

Objective: *What was the hardest part of the assignment?*

Details:

Briefly answer the question (at least a few decent sentences)

Your Response:

The hardest part of the assignments was figuring out which part of each file i needed to add my own code to, and actually coding it

own code to, and actually coding it.



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