| Name:     | Group Total Ti | me    |  |
|-----------|----------------|-------|--|
|           | Date           | Hours | Description  |
| Total Est | 10/21/2021     | 25    | We have 5 team members and on average each person found their work to be about 5 hours worth of work. The total of each members est is 25 hours. |

| Name:     | Cade Sarkin | ID:   | 2991573  |
|-----------|-------------|-------|--|
|           |             |       |  |
|           |             |       |  |
|           | Date        | Hours | Description  |
| Total Est | 10/15/21    | 5     | 2 hours meeting with team, 1 hour working on start function, 1 hour going over bug fixes, 1 hour misc. helping out |
|           |             |       |  |
|           | Date        | Hours | <b>Description</b>   |
| Work Time | 10/18/2021  | 0.5   | Meeting with team to decide project  |
|           | 10/21/2021  | 1     | Meeting with team to give out roles and talk about what functions to make  |
|           | 10/26/21    | 2     | Coding start function and constructors for Blackjack   |
|           | 10/31/2021  | 2     | Going over code again to check for bug fixes, making sure it works, also helping with anything needed              |
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| Name:     | Sam Weise  | ID:   | 2982340  |
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|           |            |       |  |
|           |            |       |  |
|           | Date       | Hours | Discription  |
| Total Est | 10/18/2021 | 5     | With meetings, coding the win condition, and bug fixes my part of the project should only take 5-6 hours |
|           |            |       |  |
|           | Date       | Hours | Discription  |
| Work Time | 10/18/2021 | 0.5   | Meeting with team to decide on project   |
|           | 10/25/2021 | 1     | Meeting with the team to plan the implementation   |
|           | 10/26/2021 | 1     | Coding the implementation for the win condition  |
|           | 10/31/2021 | 1     | Documentation for the project  |
|           | 10/31/2021 | 0.5   | Bug fixes for exiting program  |
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| Name:       | Jason Truong | ID:   | 2965959  |
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|             |              |       |  |
|             |              |       |  |
|             | Date         | Hours | <b>Description</b>   |
| Total Est   | 10/21/2021   | 5     | As usual an hour with team to discuss what to do and assign roles. 2 hours to code blackjack and 1 hour for bug fixes. Lastly, 1 hour for documentation. |
|             | Date         | Hours | <b>Description</b>   |
| Work Time   | 10/21/2021   | 1     | Met up with the team to discuss about Project 3 and designate roles  |
|             | 10/26/2021   | 2     | Started and Finished the basic turn sequence. Also did little things.  |
|             | 10/31/2021   | 2     | Did documentation for UML design and Software Architecture   |
| Total Hours | 10/31/2021   | 5     |  |
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| Name:     | Tucker McCulloch | ID:   | 2993735  |
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|           |                  |       |  |
|           |                  |       |  |
|           | Date             | Hours | Description  |
| Total Est | 10/21            | 6     | 1 hour design and planning, 2 for determining hand value, 2 for parsing card value, 1 for randomizing cards and hit function |
|           | Date             | Hours | Description  |
| Work Time | 10/18/2021       | 0.5   | meeting to decide on project   |
|           | 10/21/2021       | 1     | meeting to divide project  |
|           | 10/25/2021       | 2     | all code for hand management   |
|           | 10/31/2021       | 2     | documentation, testing, bug fixes  |
|           |                  |       |  |
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| Total     | 10/9             | 5.5   |  |

| Name:       | David Dahl | ID:   | 2979574  |
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|             |            |       |  |
|             |            |       |  |
|             | Date       | Hours | Discription  |
| Total Est   | 10/21/2021 | 8     | 3 hours planning the project, 2 hours planning, 3 hours implementing the display |
|             | Date       | Hours | Discription  |
| Work Time   | 10/18/2021 | 2     | Outlining project 3 requirments  |
|             | 10/21/2021 | 1     | project 3 meeting  |
|             | 10/26/2021 | 2     | creating a design class framework  |
|             | 10/28/2021 | 1     | further planning of display class implementtion                                  |
|             | 10/30/2021 | 2     | planning display implementation rework   |
|             | 10/31/2021 | 6     | implementing display rework and bug fixes  |
| Total Hours | 10/31/2021 | 14    |  |
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