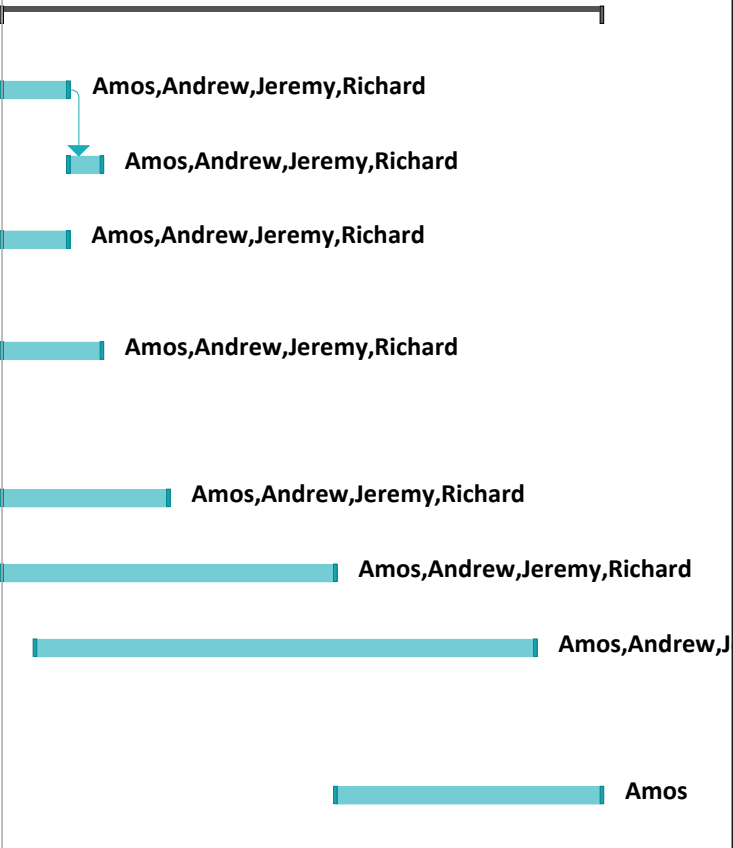


| ID | Task Mode | Task Name  | Duration       | Start             | Finish             | '14 |   |   |   |   |   |   |   |   |
|----|-----------|--|----------------|-------------------|--------------------|-----|---|---|---|---|---|---|---|---|
|    |           |  |                |                   |                    | T   | F | M | T | S | W | S | T | F |
| 1  |           | <b>Phase I- Problem Definition</b>   | <b>13 days</b> | <b>Sun 2/9/14</b> | <b>Wed 2/26/14</b> |     |   |   |   |   |   |   |   |   |
| 2  |           | Discover team members  | 2 days         | Sun 2/9/14        | Mon 2/10/14        |     |   |   |   |   |   |   |   |   |
| 3  |           | Define team members roles  | 1 day          | Tue 2/11/14       | Tue 2/11/14        |     |   |   |   |   |   |   |   |   |
| 4  |           | Create a customer and engineering requirement matrix                             | 2 days         | Sun 2/9/14        | Mon 2/10/14        |     |   |   |   |   |   |   |   |   |
| 5  |           | Find a representative for Theresa during presentations/find a way to include her | 3 days         | Sun 2/9/14        | Tue 2/11/14        |     |   |   |   |   |   |   |   |   |
| 6  |           | Create a Risk Assessment   | 5 days         | Sun 2/9/14        | Thu 2/13/14        |     |   |   |   |   |   |   |   |   |
| 7  |           | Research existing designs-Benchmarking   | 8 days         | Sun 2/9/14        | Tue 2/18/14        |     |   |   |   |   |   |   |   |   |
| 8  |           | Establish a budget   | 11 days        | Mon 2/10/14       | Mon 2/24/14        |     |   |   |   |   |   |   |   |   |
| 9  |           | Schedule meeting with client (Theresa)   | 6 days         | Wed 2/19/14       | Wed 2/26/14        |     |   |   |   |   |   |   |   |   |



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| ID | Task Mode | Task Name   | Duration       | Start              | Finish             | '14 |   | Feb 9, '14 |   | Feb 16, '14 |   | Feb 23, '14 |   |   |
|----|-----------|---|----------------|--------------------|--------------------|-----|---|------------|---|-------------|---|-------------|---|---|
|    |           |   |                |                    |                    | T   | F | M          | T | S           | W | S           | T | F |
| 10 |           | <b>Phase II-System Design</b>   | <b>42 days</b> | <b>Sun 2/16/14</b> | <b>Tue 4/22/14</b> |     |   |            |   |             |   |             |   |   |
| 11 |           | Conduct Peer Review   | 2 days         | Sun 2/16/14        | Mon 2/17/14        |     |   |            |   |             |   |             |   |   |
| 12 |           | Meet with Theresa   | 2 hrs          | Tue 2/25/14        | Tue 2/25/14        |     |   |            |   |             |   |             |   |   |
| 13 |           | Visit retailer to see types of designs- find ways to implement certain features | 5 days         | Tue 2/25/14        | Mon 3/3/14         |     |   |            |   |             |   |             |   |   |
| 14 |           | <b>Define System</b>  | <b>41 days</b> | <b>Tue 2/18/14</b> | <b>Tue 4/22/14</b> |     |   |            |   |             |   |             |   |   |
| 15 |           | Create a Functional   | 5 days         | Tue 2/18/14        | Mon 2/24/14        |     |   |            |   |             |   |             |   |   |
| 16 |           | Create a Morphological Analysis   | 5 days         | Tue 2/18/14        | Mon 2/24/14        |     |   |            |   |             |   |             |   |   |














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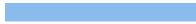






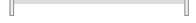











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|----|-----------|---|----------------|-------------------|--------------------|-----|---|------------|---|-------------|---|-------------|---|---|---|
|    |           |   |                |                   |                    | T   | F | M          | T | S           | W | S           | T | F |   |
| 17 |           | Create a Concept Selection                    | 5 days         | Tue 2/25/14       | Mon 3/3/14         |     |   |            |   |             |   |             |   |   |   |
| 18 |           | Create bill of materials                      | 5 days         | Fri 3/14/14       | Thu 3/20/14        |     |   |            |   |             |   |             |   |   |   |
| 19 |           | Review/Edit Risk Assessment                   | 2 days         | Fri 3/14/14       | Mon 3/17/14        |     |   |            |   |             |   |             |   |   |   |
| 20 |           | Review feasilbilty of design                  | 1 day          |                   |                    |     |   |            |   |             |   |             |   |   |   |
| 21 |           | Conduct System Review                         | 1 day          | Tue 3/4/14        | Tue 3/4/14         |     |   |            |   |             |   |             |   |   |   |
| 22 |           | <b>Phase III-Subsystem</b>                    | <b>30 days</b> | <b>Wed 3/5/14</b> | <b>Tue 4/22/14</b> |     |   |            |   |             |   |             |   |   |   |
| 23 |           | Update System Design                          | 3 days         | Wed 3/5/14        | Fri 3/7/14         |     |   |            |   |             |   |             |   |   |   |
| 24 |           | Create a next level                           | 12 days        | Wed 3/12/14       | Thu 4/3/14         |     |   |            |   |             |   |             |   |   |   |
| 25 |           | Discuss a goal (output): proof of concept     | 11 days        | Wed 3/12/14       | Wed 4/2/14         |     |   |            |   |             |   |             |   |   |   |
| 26 |           | Plan procedure for engineering analysis       | 9 days         | Wed 3/12/14       | Mon 3/31/14        |     |   |            |   |             |   |             |   |   |   |
| 27 |           | Visit another store that sells device-Benchma | 6 days         | Fri 3/7/14        | Fri 3/14/14        |     |   |            |   |             |   |             |   |   |   |

Amos,Andrew,Jeremy,Richard

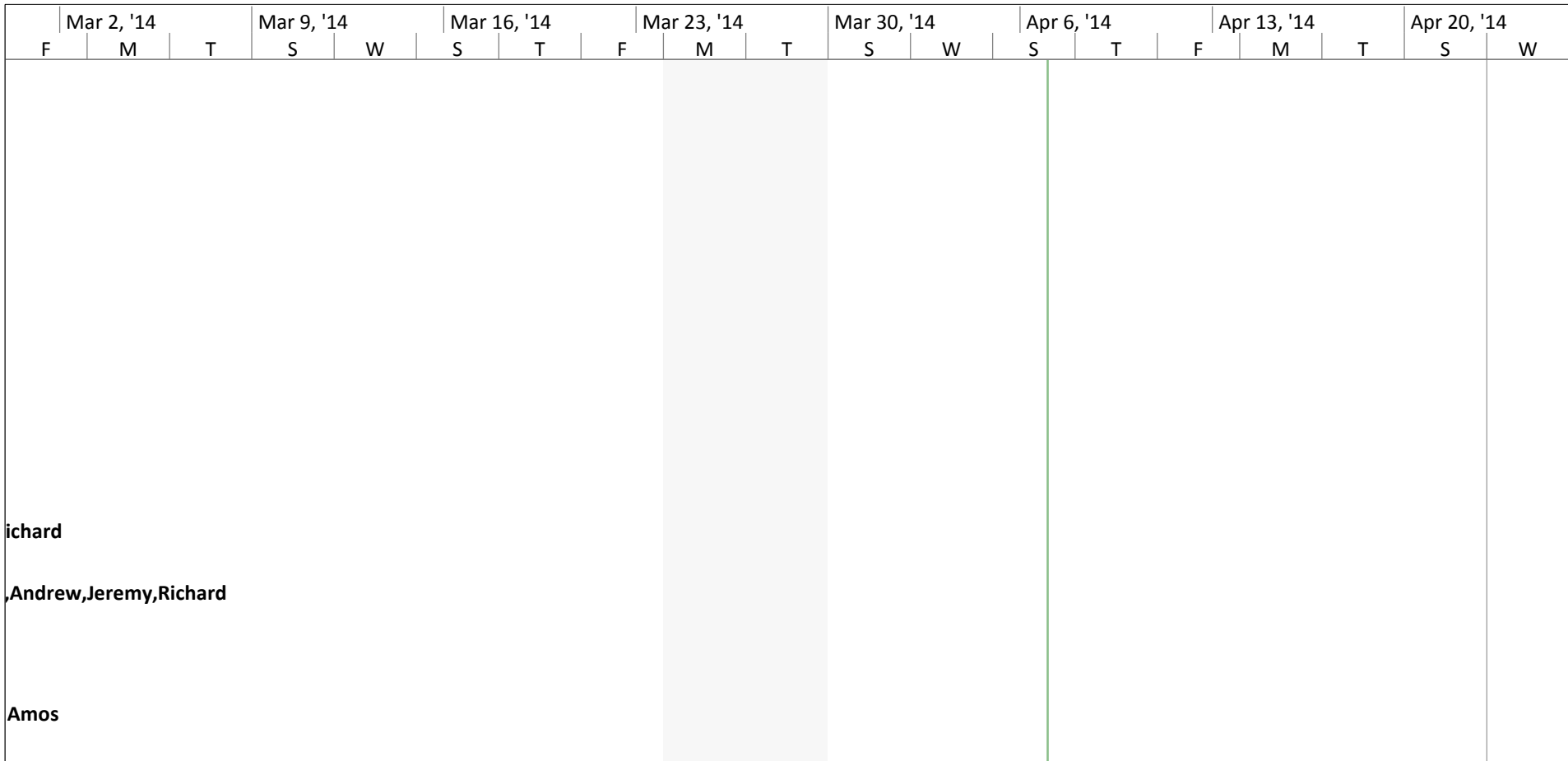
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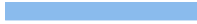






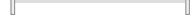











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|    |  |  |                |                    |                    | T   | F | M          | T | S           | W | S           | T | F |   |
| 28 | <br><br> | Research possible material that          | 12 days        | Thu 3/6/14         | Fri 3/21/14        |     |   |            |   |             |   |             |   |   |   |
| 29 | <br>   | Schedule meeting with                    | 1 day          | Tue 3/25/14        | Tue 3/25/14        |     |   |            |   |             |   |             |   |   |   |
| 30 | <br>   | Contact Jim Tevii                        | 1 wk           | Thu 3/6/14         | Wed 3/12/14        |     |   |            |   |             |   |             |   |   |   |
| 31 |   | <b>Phase IV- Detailed System</b>         | <b>26 days</b> | <b>Tue 3/11/14</b> | <b>Tue 4/22/14</b> |     |   |            |   |             |   |             |   |   |   |
| 32 |   | Incorporate Ergonomics drawings with CAD | 6 days         | Thu 4/3/14         | Thu 4/10/14        |     |   |            |   |             |   |             |   |   |   |
| 33 |   | Refine CAD designs                       | 11 days        | Thu 4/3/14         | Thu 4/17/14        |     |   |            |   |             |   |             |   |   |   |
| 34 |   | Design of control                        | 5 days         | Tue 3/11/14        | Mon 3/17/14        |     |   |            |   |             |   |             |   |   |   |
| 35 |   | Develop a battery                        | 6 days         | Tue 4/8/14         | Tue 4/15/14        |     |   |            |   |             |   |             |   |   |   |
| 36 |   | Contact and meet with                    | 11 days        | Mon 4/7/14         | Mon 4/21/14        |     |   |            |   |             |   |             |   |   |   |

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|    |           |  |          |            |             | T   | F | M          | T | S           | W | S           | T | F |   |
| 37 |           | Establish proof of concept in                    | 14 days  | Thu 4/3/14 | Tue 4/22/14 |     |   |            |   |             |   |             |   |   |   |
| 38 |           | Develop a test plan for the device               | 4 days   | Thu 4/3/14 | Tue 4/8/14  |     |   |            |   |             |   |             |   |   |   |
| 39 |           | Refine Bill of Materials                         | 14 days  | Thu 4/3/14 | Tue 4/22/14 |     |   |            |   |             |   |             |   |   |   |
| 40 |           | Arrange meetings with faculty to review Detailed | 14 days  | Thu 4/3/14 | Tue 4/22/14 |     |   |            |   |             |   |             |   |   |   |
| 41 |           | Purchase act                                     | 6 days   | Thu 4/3/14 | Thu 4/10/14 |     |   |            |   |             |   |             |   |   |   |

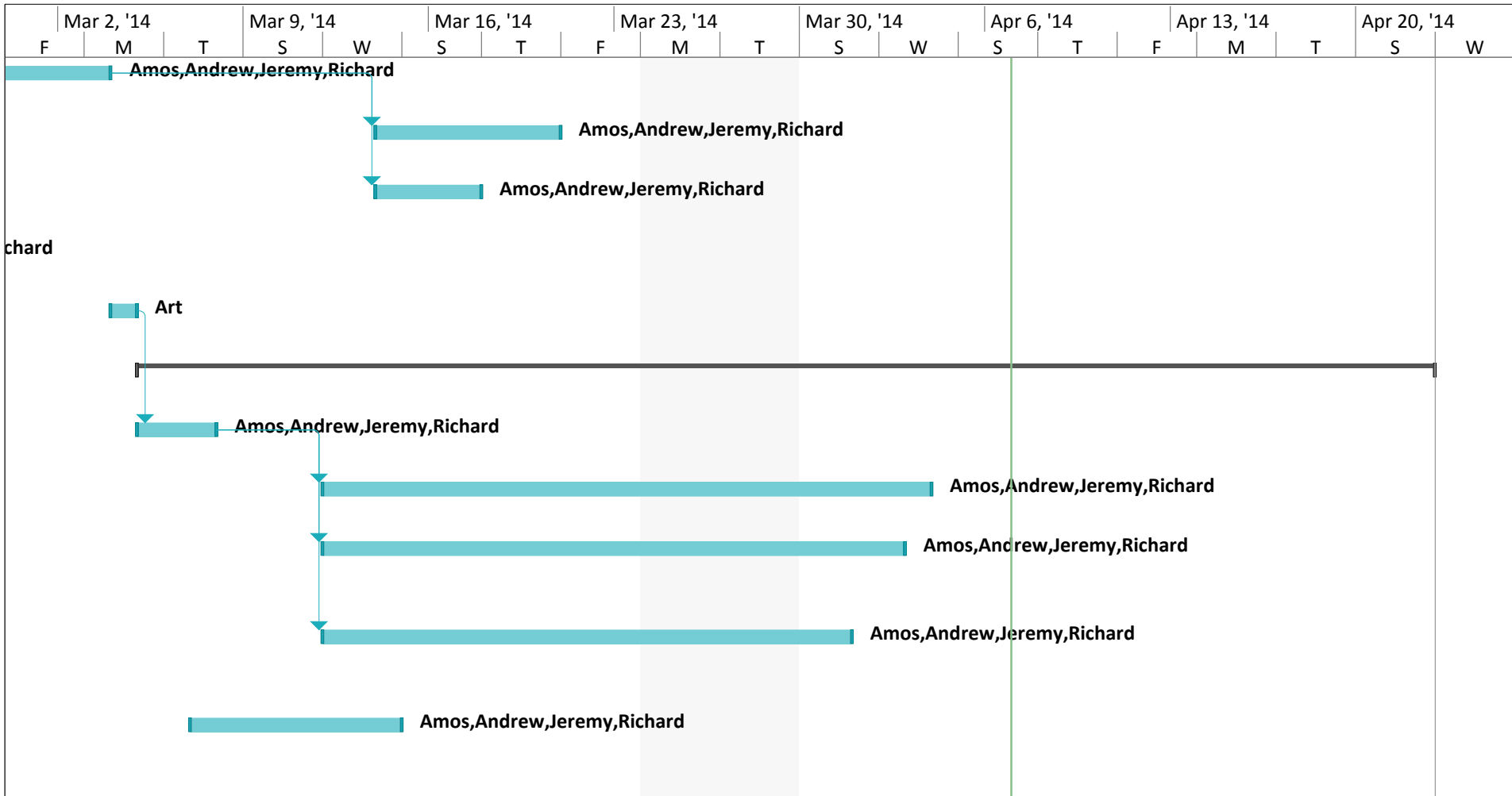
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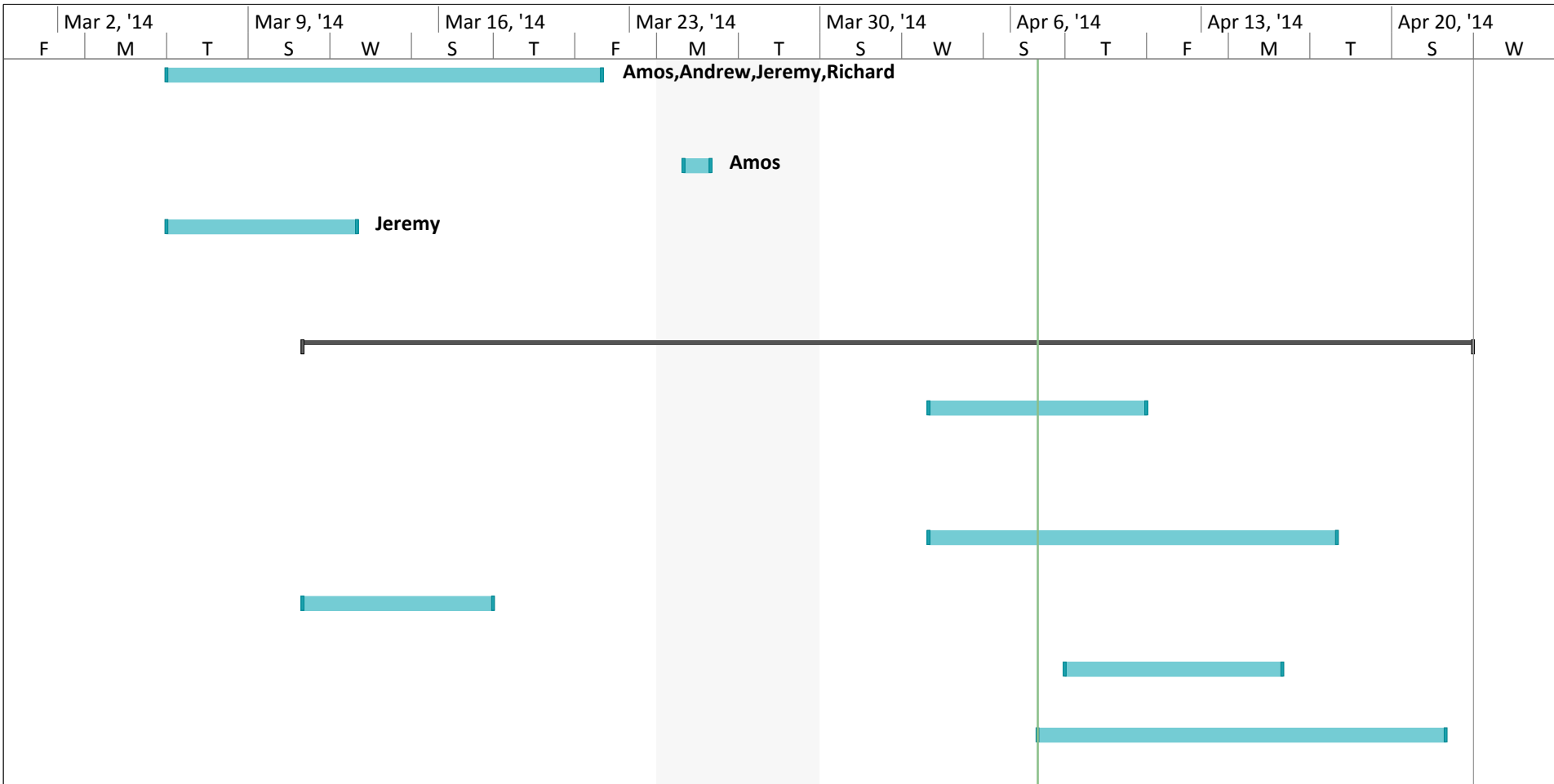
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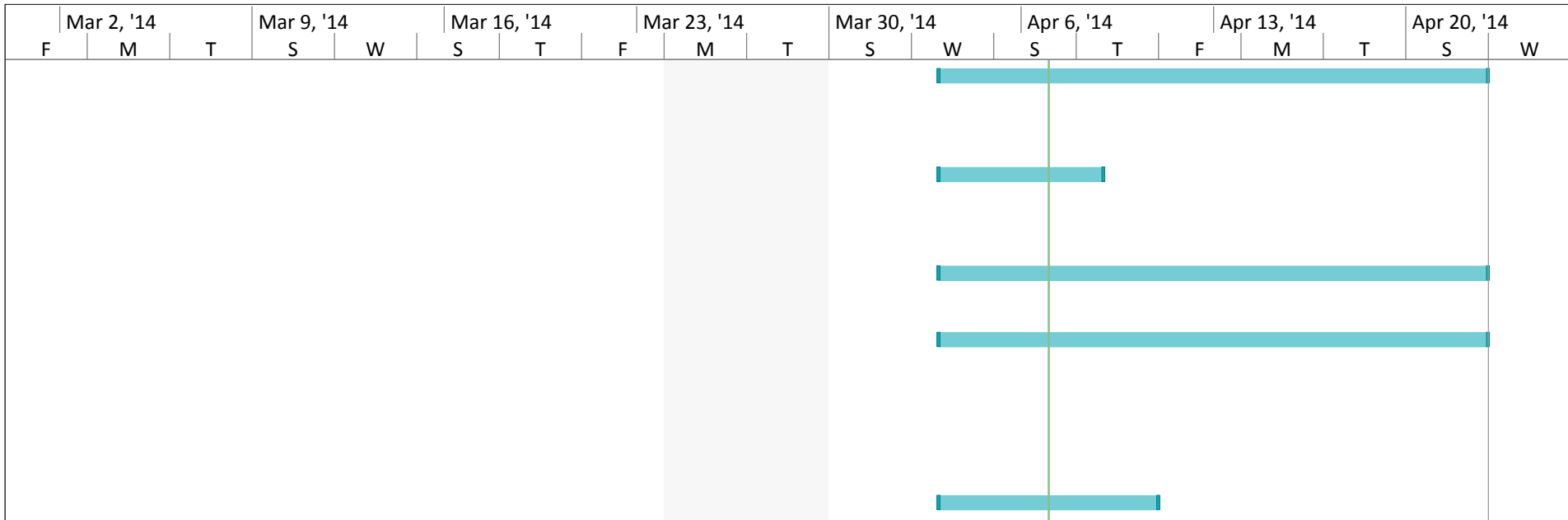
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