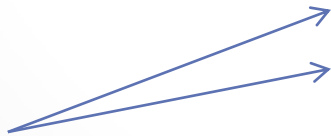# C@CM: Courses at Carnegie Mellon

Today's Dynamic Presenters

James
Bryce
David
Jeffrey

Where are we?

- Outline
- Problem Addressed
- Proposed Approach
- Intermission
- Literature Review
- Qualifications
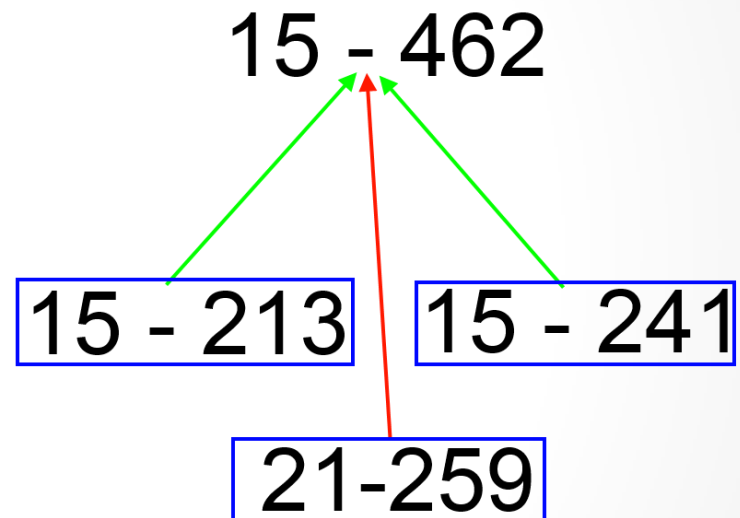- Benefits

Bryce Speaks

James Speaks

Problem Addressed

Students need help with their course selections

- Prerequisites
- Planning
- Spring / Fall only

15 - 462
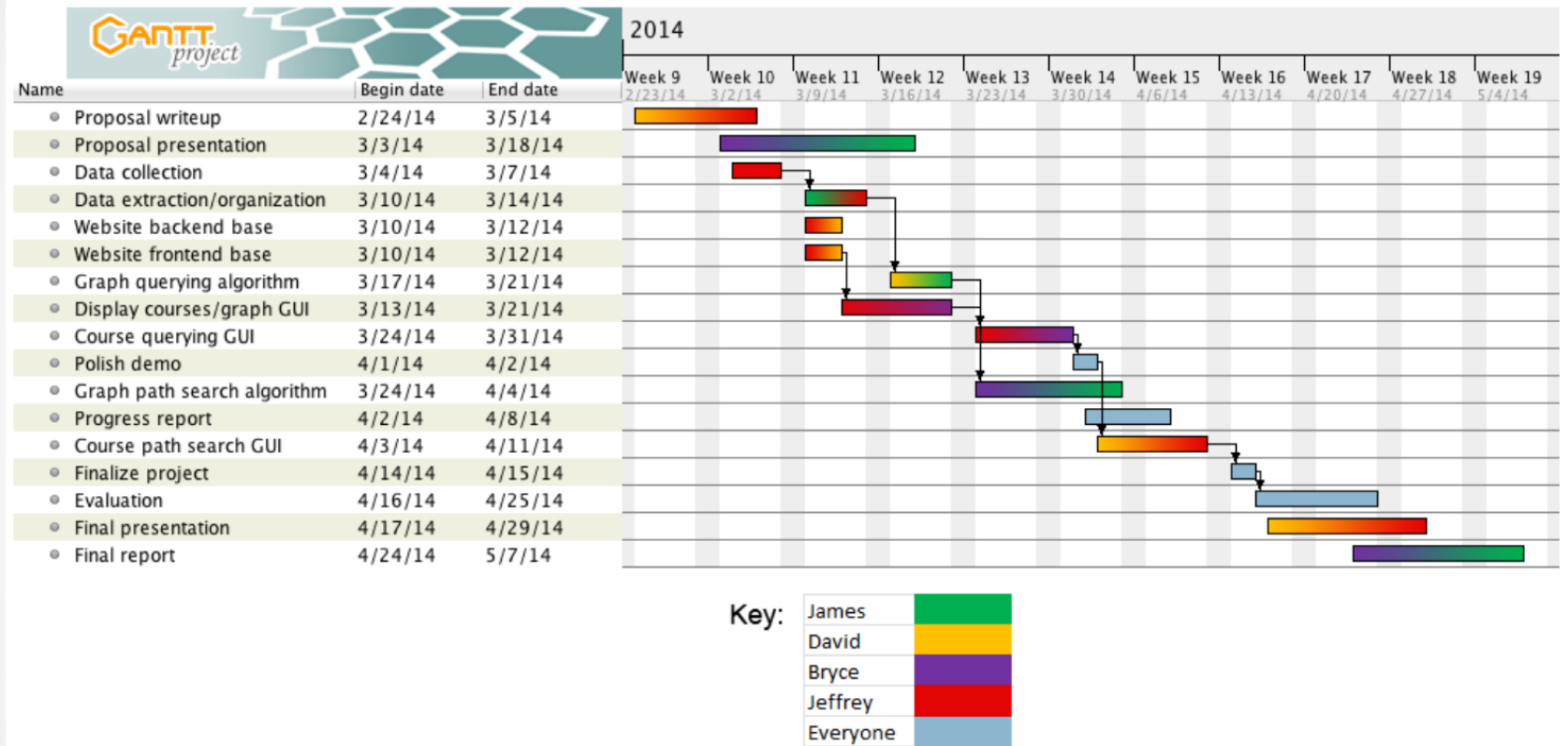
15 - 213   15 - 241

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Problem Approach

Figure 1: Gantt chart

| Outline | Problem | Approach | Literature Review | Qualifications | Benefits |

Methodology

- HTML parser → data Scraping

- SQLite database → data management

- JavaScript with d3.js → frontend

- Python + Bottle.py → backend

- Git → Version Control

Outline	Problem	Approach	Literature Review	Qualifications	Benefits

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Bryce Speaks

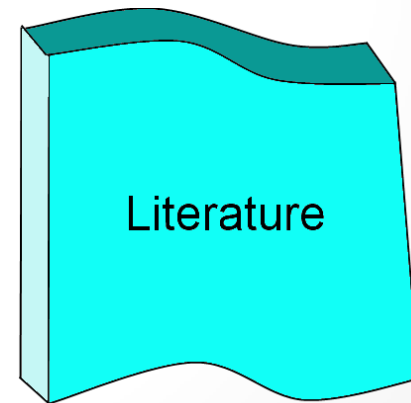James Speaks

Literature Review

Official CMU Tools

- Student Information Online (SIO)
- Academic Audit
- Course Catalog

CMU Student Projects

- ScheduleMan
- Schedule+
- WhichCourse
- CourseReqr
- APIs@CMU

External Tools

- Hxhl95 Course Dependency Visualizer on GitHub
- Graph Libraries:
  - **Dracula Graph Library**

Literature

Qualifications

James
- 4 years of Java programming
- Graduate Level coursework in Algorithms

Bryce
- 6 years of Java programming
- 4 years of Python programming
- Implemented many algorithmic programs

David
- 6 years of Java programming
- 2 years of Python programming
- 10 years of art/design experience

Jeffrey
- 4 years of web development
- 3+ years of Java, Python, and JavaScript Programming

Benefits

Them

- Easier Course Selection for the community
- Fewer wasted semesters
- Long Term Planning

Us

- learning Web Development
- Practicing applied graph algorithms
- The warm and fuzzy feeling that comes from helping others

Outline	Problem	Approach	Literature Review	Qualifications	Benefits

Conclusion

- We wish to help the Carnegie Mellon Community.
- Courses @ Carnegie Mellon will help the short term planners.

Sources

- 1. https://scheduleman.org/
- 2. http://scheduleplus.org/
- 3. http://whichcourse.herokuapp.com/
- 4. https://apis.scottylabs.org/
- 5. http://www.graphdracula.net/
- 6. http://tartanhacks.com/
- 7. http://upload.wikimedia.org/wikipedia/commons/8/8c/Buffer_stop_at_Leamington_Spa_railway_station_-_geograph.org.uk_-_1519251.jpg