

# **Project Report**

1. Introduction
  - 1.1. Why is the project needed?
  - 1.2. Previous Work
  - 1.3. What is the project?
  - 1.4. Project goals
2. Technical Design
  - 2.1. Requirements
    - 2.1.1. Create calendar
    - 2.1.2. Event for each month
    - 2.1.3. Printable and usable
  - 2.2. Calendar Design
    - 2.2.1. Placement of image and text with qr code
    - 2.2.2. Size of image and text
3. Corpus
  - 3.1. Reasoning
    - 3.1.1. Student experience
  - 3.2. Design
    - 3.2.1. University History
    - 3.2.2. City History
4. Implementation & Development
  - 4.1. Technologies used
  - 4.2. Callirhoe & Calmagick
    - 4.2.1. Callirhoe Designs
    - 4.2.2. Calmagick Stitching
  - 4.3. Event Retrieval
    - 4.3.1. Google docs to CSV
      - 4.3.1.1. Authentication
      - 4.3.1.2. Gspread
    - 4.3.2. Excel to CSV
      - 4.3.2.1. Pandas read excel
    - 4.3.3. CSV parsing
      - 4.3.3.1. pandas
    - 4.3.4. Choosing events
      - 4.3.4.1. Shared csv files between two scripts
      - 4.3.4.2. Dict Reader/Writer
  - 4.4. Displaying Event
    - 4.4.1. Downloading image
    - 4.4.2. Downloading text
    - 4.4.3. Creating QR code
  - 4.5. GUI
    - 4.5.1. Argument Parser
      - 4.5.1.1. Goody Parser
    - 4.5.2. Goody
      - 4.5.2.1. Using Goody
      - 4.5.2.2. Multiple Goody Windows
  - 4.6. Multiprocessing
    - 4.6.1. Huge speed increase, 3m30 down to <1m

- 5. Evaluation
  - 5.1. Usage Testing
    - 5.1.1. Handing out Test calendars
    - 5.1.2. QR tracking with bit.ly
  - 5.2. User Feedback
    - 5.2.1. Design Feedback
    - 5.2.2. Functionality Feedback
    - 5.2.3. Overall Engagement
  - 5.3. Hopefully evaluation from the original blog makers
- 6. Conclusion
  - 6.1. Successes
  - 6.2. Failures
  - 6.3. Future Work
  - 6.4. Personal Achievements