Background

For over a decade, CCHR Sacramento has used software to evaluate bills that are before the California legislature. There have been three versions of this software – Coyote, Circus and Scout.

Coyote was designed for use by someone other than the developer. Circus was not and the first version of Scout was not.

Scout2 is intended to

* be usable by someone other than the developer, and
* be extensible/repairable by someone other than the current developer.

Scout2 is being prepared for eventual hand-off. As of this writing, hand-off is not imminent.

Goals & Objectives

There are two roles with needs to be addressed. Those roles are user and developer.

User needs:

* The software must be easily accessible. This may mean that it is available on AWS or another platform. It may mean that it is available for download or other distribution. It may mean both. That needs to be established.
* The software should automate as much of the process as possible.
* A user’s guide
* A guide on evaluating legislative bills

Developer needs:

* These requirements
* Design documentation
* Test cases
* Source code

Business Case

I won’t be here forever.

Assumptions

In Scope

* Platform: Windows or AWS, depending on survey results
* Language: C# because that’s what Scout1 is written in and because it is well known
* Reports: On demand, creates canonical individual report for bill, allows editing
* Reports: On demand, generates weekly report from database and individual bill reports

Out of Scope

* Platform: Linux, Azure, etc.
* Language: C++, Rust, Python, etc.

Constraints

Constraints such as time, budget, resources, tools and environments

Functional Requirements

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| ID: F0001 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Functional Requirements | | Extends: | |
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| ID: SQ0001 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Sequence | | Extends: F0001 | |
| Scout implements a sequence of actions which are   1. Download the appropriate data from the legislature site. 2. Organize that data for processing 3. Compute scores for each downloaded bill. 4. Bring existing bill reports up to date, consistent with the downloaded data. 5. Give the user an opportunity to update any bill reports that changed when bills were updated. 6. Give the user an opportunity to create new bill reports 7. Generate the weekly report. | | | |

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| ID: SQ0002 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Download zip file | | Extends: SQ0001 | |
| Scout downloads the latest zip file from the legislative site http://leginfo.legislature.ca.gov/. | | | |

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| ID: SQ0003 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Organize for processing | | Extends: SQ0001 | |
| Scout extracts some of the table data files and the latest text files from the downloaded zip file. | | | |

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| ID: SQ0004 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Scores | | Extends: OP0002 | |
| Scout computes scores for the most recent version of each downloaded bill. | | | |

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| ID: SQ0005 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Update Bill Reports | | Extends: SQ0001 | |
| Scout brings existing bill reports up to date, consistent with the downloaded data. | | | |

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| ID: SQ0006 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: User Update Reports | | Extends: SQ0001 | |
| Scout gives the user an opportunity to update any bill reports that changed when bills were updated. | | | |

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| ID: SQ0007 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: User Create Reports | | Extends: SQ0001 | |
| Scout gives the user an opportunity to create new bill reports. | | | |

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| ID: SQ0009 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports | | Extends: SQ0001 | |
| Scout generates the weekly report. | | | |

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| ID: DZ0001 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: Correct Zip File | | Extends: SQ0002 | |
| Select the zip file with the latest date. | | | |

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| ID: DZ0002 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: Zip File Destination | | Extends: SQ0002 | |
| Specified at design time. | | | |

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| ID: DZ0003 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: On Starting Download | | Extends: SQ0002 | |
| Show progress by indicating that the download has started. | | | |

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| ID: DZ0004 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: On Completing Download | | Extends: SQ0002 | |
| Show progress by indicating that the download has comleted. | | | |

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| ID: OP0001 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: No Data Carry-Over | | Extends: SQ0003 | |
| Expect each new Legislature data file to contain arbitrary changes in the data files. (The files are accurate, but the same revision of a bill may be in a different .lob file). | | | |

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| ID: OP0002 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: Replace Text Files | | Extends: OP0003 | |
| Replace all bill text files with fresh content from downloaded zip file. | | | |

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| ID: OP0003 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Select Most Recent Bill Versions | | Extends: OP0001 | |
| Replace all bill table file with fresh content from downloaded zip file. | | | |

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| ID: OP0004 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Replace Table Files | | Extends: OP0001 | |
| Replace all bill table file with fresh content from downloaded zip file. | | | |

Non-Functional Requirements

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| ID: NF0001 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: Non-Functional Requirements | | Extends: | |
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| ID: NF0002 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: BillRows | | Extends: NF0001 | |
| Scout maintains a database table where each row describes a bill. | | | |

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| ID: NF0003 | Last Edit: 29 Jan 2020 | | Status: Proposed |
| Name: BillRows Persistence | | Extends: NF0002 | |
| The table described in “BillRows” persists between Scout runs. | | | |

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| ID: BR0001 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: From BILL\_TBL.dat | | Extends: NF0002 | |
| Bill\_Tbl.dat (from zip file) contains several items (e.g., Measure, Version, Location, etc.) that are useful in generating or updating an individual bill report. | | | |

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| ID: BR0002 | Last Edit: 30 Jan 2020 | | Status: Proposed |
| Name: Position Taken | | Extends: NF0002 | |
| When updating a bill, the position being taken on the bill is available from the extant bill report. | | | |

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| ID: IR0001 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Reports on Individual Bills | | Extends: NF0001 | |
| Reports are generated on some individual bills. These requirements do not specify the criteria for generating a report – the decision is up to the person writing the report. | | | |

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| ID: IR0002 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Individual Report, Title | | Extends: IR0001 | |
| The report has a title giving the measure ID, e.g. AB-1, authors(s) and bill title. | | | |

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| ID: IR0003 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Individual Report, Summary | | Extends: IR0001 | |
| The report has a section summarizing the bill and adding any observations that may improve the reader’s understanding of the bill and/or its context. | | | |

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| ID: IR0004 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Individual Report, Short Summary | | Extends: IR0001 | |
| The report has a short summary, preferably a single line, used to characterize the bill in Scout’s weekly report. | | | |

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| ID: IR0005 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Individual Report, Position | | Extends: IR0001 | |
| The report has a recommended position, along with a short explanation of why that position. | | | |

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| ID: IR0006 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Individual Report, Status | | Extends: IR0001 | |
| The report has a status section that gives the bill’s current location in the approval pipeline, the last action performed on the bill, the vote needed to pass (Majority, 2/3), whether the bill is an appropriation bill, whether the bill must pass a fiscal committee, and whether the bill mandates a local program. | | | |

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| ID: IR0007 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Individual Report, History | | Extends: IR0001 | |
| The report shows the bill’s history, from the time it was introduced to the present time. | | | |

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| ID: WR0001 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports | | Extends: NF0001 | |
| Scout generates a Weekly Report | | | |

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| ID: WR0002 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, New This Week | | Extends: WR0001 | |
| The Weekly Report contains a section showing CCHR-of-interest bills that have appeared this week. | | | |

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| ID: WR0003 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Highest Priority | | Extends: WR0001 | |
| The Weekly Report contains a section showing the current state of the highest priority CCHR-of-interest bills. | | | |

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| ID: WR0004 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, changes This Week | | Extends: WR0001 | |
| The Weekly Report contains a section showing the CCHR-of-interest bills that have experienced change during the past week. | | | |

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| ID: WR0005 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Upcoming Committee Hearings | | Extends: WR0001 | |
| The Weekly Report contains a section showing those upcoming committee meetings which are of CCHR interest. | | | |

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| ID: WR0006 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Bills Opposed | | Extends: WR0001 | |
| The Weekly Report contains a section showing the bills currently being opposed. | | | |

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| ID: WR0007 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Bills Monitored | | Extends: WR0001 | |
| The Weekly Report contains a section showing the bills currently being monitored. | | | |

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| ID: WR0008 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Bills Chaptered | | Extends: WR0001 | |
| The Weekly Report contains a section showing the CCHR-of-interest bills that have chaptered this biennium. | | | |

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| ID: WR0009 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Remaining Legislature Schedule | | Extends: WR0001 | |
| The Weekly Report shows the legislature schedule for the remainder of the year. | | | |

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| ID: WR0010 | Last Edit: 31 Jan 2020 | | Status: Proposed |
| Name: Weekly Reports, Definitions | | Extends: WR0001 | |
| The Weekly Report contains a section defining various legislative (and related) terms. | | | |

Glossary of Terms

<https://simplicable.com/new/requirements>

Behavioral Requirements

User Interfaces

Business Requirements

User Stories

As a type-of-user, I want function so that goal.

Business Rules

If X happens then do Y

Functional Requirements

Consistent, cohesive, complete, atomic, verifiable

Business Rules

Calculations

Process Flows

Use Cases

Non-Functional Requirements

Qualities and characteristics

Performance Requirements

Operational Requirements