## Description:

This case describes the process the literature review done by an academic to initiate a new research study/program. The intention is to automate this process and reduce manual work on the part of the academic

## Work Context Diagram/Scoping Model

Research repository

Collaborating Researcher

1.Preliminary Search keywords

2.Relevant articles

5.Annotated Lit review

3.Refined Search

4.Additional Articles

## Event Table

|  |  |  |  |
| --- | --- | --- | --- |
| Business Event | Adjacent System | Data flow | Business Use Case |
| Academic wants to initiate literature review | Research repository | 1, 2, 3, 4 | Article Search process |
| Academic wants to perform article analysis | Collaborating Researcher | 5 | Article Analysis Process |

## BUC Scenario Descriptions

### Article Search Process.

*I initiate the article search process for the literature review when I have decided on a broad research objective or research question. Once I know that it helps me set up the relevant keywords. Once I know that I go onto a research database. I primarily use Scholar Google because it is linked to my university library. Once in the site I provide the keywords. I then scan the results. First, I look at the title and then the abstract. If the title and abstract are relevant, I download the file to a local folder. If the article is not available, I use the library link option to see if it is available at Towson. If it is not available at the University Library, I make a note of the article citation and save it in a document. I typically don’t go beyond the first two pages of a search as often they are less relevant to the specific research. I like to get about 20 articles for my preliminary review. If the first set of keywords do not yield enough articles, I refine my keyword search to get more articles. I repeat the same process for each new search and download the relevant files*

### Article Analysis Process

*I start this process when I have enough articles to do the literature review. I scan through each article and start noting details about them. I typically use a spreadsheet application as it allows me to filter the results of my analysis if needed. Each row of the spreadsheet contains details about a particular article. For each article I maintain the following information: Article Title, Publication source, Authors, Publication Date, Research Question, Research Methodology, Research Outcome, Comments. The final field is where I make comments about the article that is relevant to the project. I do this till I have gone through all the downloaded articles. Sometimes I find that a downloaded article is really not relevant, and I do not include them. Once I am done with all the articles I typically send the spreadsheet with my literature review to my research collaborator for the project to initiate further discussions about the project*