

Text extractions from documents into Elasticsearch

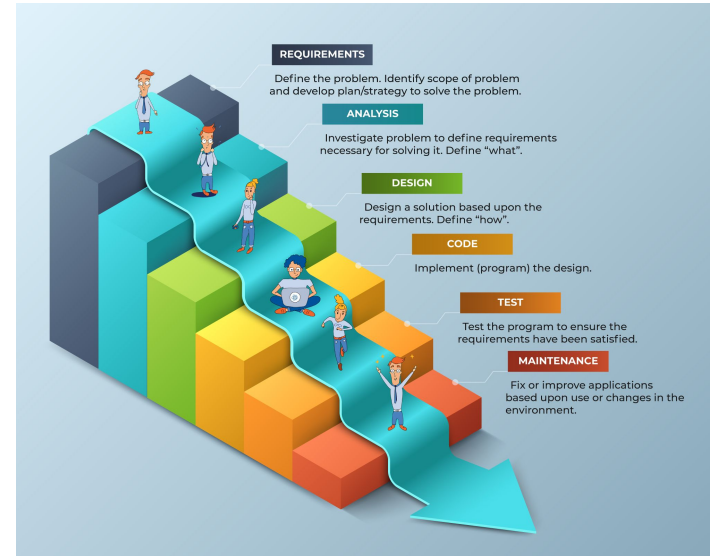
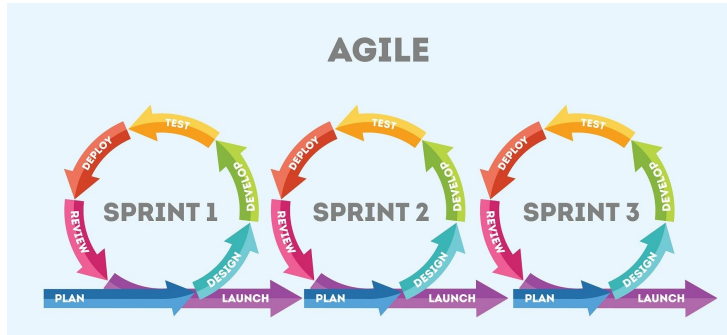
Team Members: Bruce Bitwayiki, Jared Hayashi,
Rushal Sohal, Tiffany Mayberry



What is the measurement?
What file is it in?



Project Management Style



Task Decomposition

1. Project Planning
2. Develop Web Application User Interface (UI)
3. Develop REST API
4. Setup Elasticsearch Node
5. Develop File Text Extractor
6. Application Testing



Text Extraction from Documents into Elasticsearch for BuilderTrend

Tasks/Subtasks	01/25/22	1/31/22	2/7/22	2/14/22	2/21/22	2/28/22	3/7/22	3/14/22	3/21/22	3/28/22	4/4/22	4/11/22	4/18/22	4/25/22	5/2/22	5/9/22	Summer Break	8/22/22	8/29/22	9/5/22	9/12/22	9/19/22	9/26/22	10/3/22	10/10/22	10/17/22	10/24/22	10/31/22	11/7/22	11/14/22	11/21/22	11/28/22	12/5/22	12/12/22	Completed			
1. In-Class Assignments																																						
Team Building																																						
Team Initiation Assignment																																						
Professionalism Assignment																																						
Team Website																																						
Requirements & Standards Planning																																						
Design Planning																																						
Testing Planning																																						
Project Planning																																						
2. Develop Web Application UI																																						
Design core components																																						
Create UI Mockup																																						
Implement Prototype																																						
Implement Search Bar and Results View																																						
Implement Filter Bar																																						
Implement File Uploader																																						
Integrate REST API Calls																																						
Revise Implementation																																						
3. Develop REST API																																						
Design Calls between Web App and Elasticsearch																																						
Design Calls between Text Extractor and Elasticsearch																																						
Implement Web App API Calls																																						
Implement Text Extractor API Calls																																						
4. Setup Elasticsearch																																						
Request server to host																																						
Install / Setup Elasticsearch on server																																						
Setup Elasticsearch Node																																						

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5. Develop File Text Extractor																																					
Install Apache Tika on server																																					
Design component interactions																																					
Implement file type detection																																					
Implement file meta data detection																																					
Implement .docx text extraction																																					
Implement .txt text extraction																																					
Implement .xlsx text extraction																																					
Implement .pptx text extraction																																					
Implement .pdf text extraction																																					
Implement .jpg text extraction																																					
Implement .png text extraction																																					
Integrate REST API Calls																																					
Revise Implementation																																					
6. Application Testing																																					
Create frontend unit tests																																					
Create text extractor unit tests																																					
User acceptance tests																																					

Risks/Risk Mitigation

1. Project Planning (Risk Probability: 0.3)
2. Develop Web Application User Interface (Risk Probability: 0.3)
3. Develop REST API (Risk Probability: 0.4)
4. Setup Elasticsearch Node (Risk Probability: 0.2)
5. Develop File Text Extractor (Risk Probability: 0.4)
6. Application Testing (Risk Probability: 0.1)

Personal Effort Level

1. Project Planning (Est. Hours: 75)
2. Develop Web Application User Interface (Est. Hours: 50)
3. Develop REST API (Est. Hours: 100)
4. Setup Elasticsearch Node (Est. Hours: 75)
5. Develop File Text Extractor (Est. Hours: 75)
6. Application Testing (Est. Hours: 25)