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Dr. Mejias

ITSC 3155

Fall 2021

Assignment 3-2

Design Sprint Day 1

Table of Contents:

David Blaine

David Blaine

Job Title
IT Data Miner

Age
34 years

Highest Level of Education
Bacholors Degree in CS

Social Networks

Industry
Advertising and IT

Organization Size
15

Preferred Method of Communication

- Phone
- Email
- Face-To-face

Tools They Need to Do Their Job

- Linux OS
- Python
- Pycharm
- Computer

Job Responsibilities

Minning websites to extract user data to serve better advertisements

Their Job Is Measured By

The data extracted and Ad targeting

Reports to

Manager

Goals or Objectives

Grow his Company

Scenario Map:

Scenario Map

Feature List

Multi-Thread Utilization
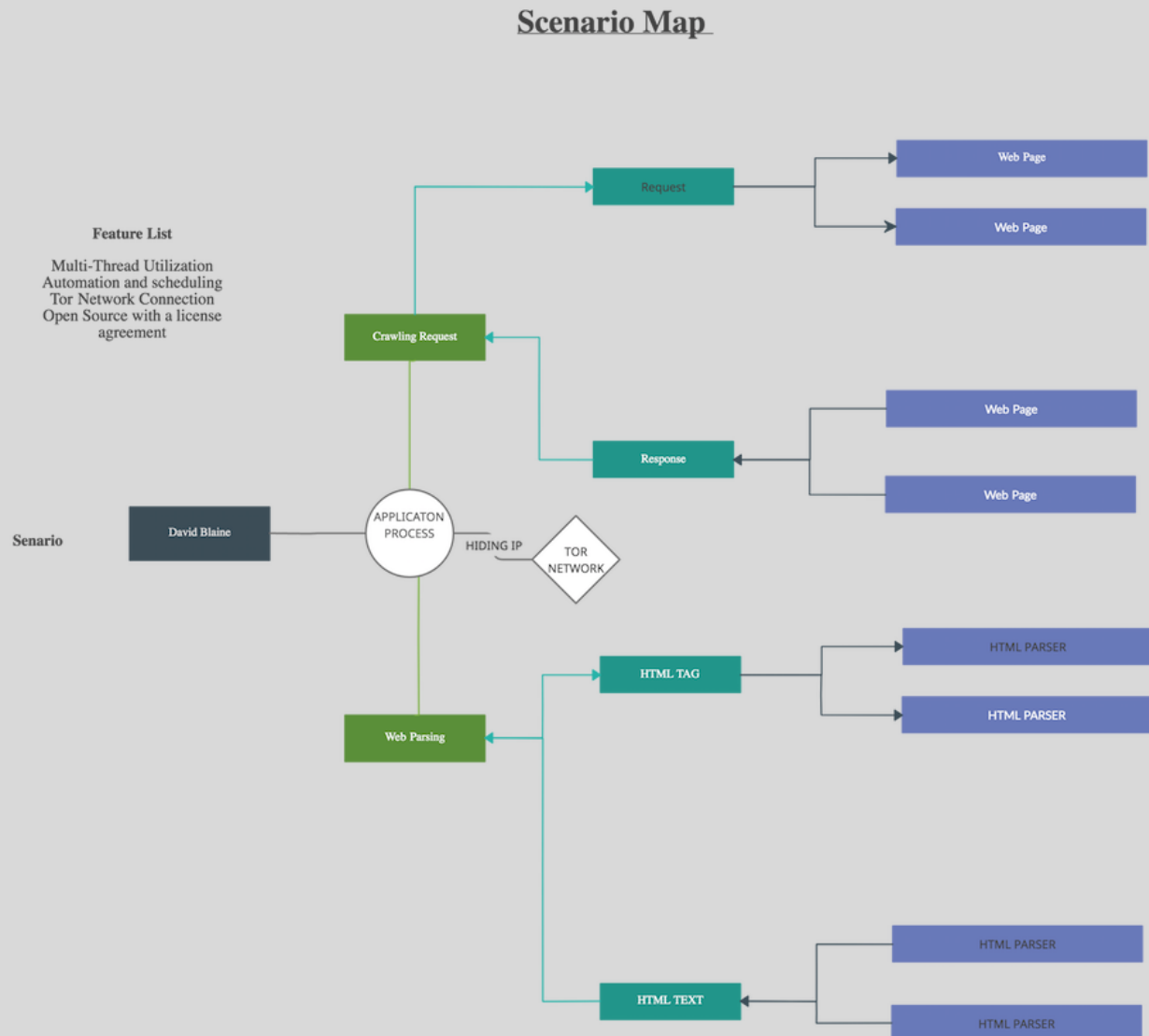Automation and scheduling
Tor Network Connection
Open Source with a license
agreement

Senario

David Blaine

APPLICATON PROCESS

HIDING IP

TOR NETWORK

Crawling Request

Request

Web Page

Web Page

Response

Web Page

Web Page

Web Parsing

HTML TAG

HTML PARSER

HTML PARSER

HTML TEXT

HTML PARSER

HTML PARSER

- David Blane, Male, 31, IT Data Minning Professional

As a Data Miner, I want to list all the contents on a website so I can extract data and model it using graphs. He is now tasked with mining data for information in his current job.

Scenario:

David is now tasked with doing more than he usually is due to the pandemic and his company having to lay off some of his colleagues. He is on a deadline to crawl and extract data from many websites with an approaching deadline.

User Stories:

- As a Data Miner, I want to utilize my hardware to parse data from the web quickly
- As a Data Miner, I want to schedule tasks for web crawling.
- As a Data Miner, I want to save the output into a file.
- As a Data Miner, I want to make the source of my traffic anonymous

Features List:

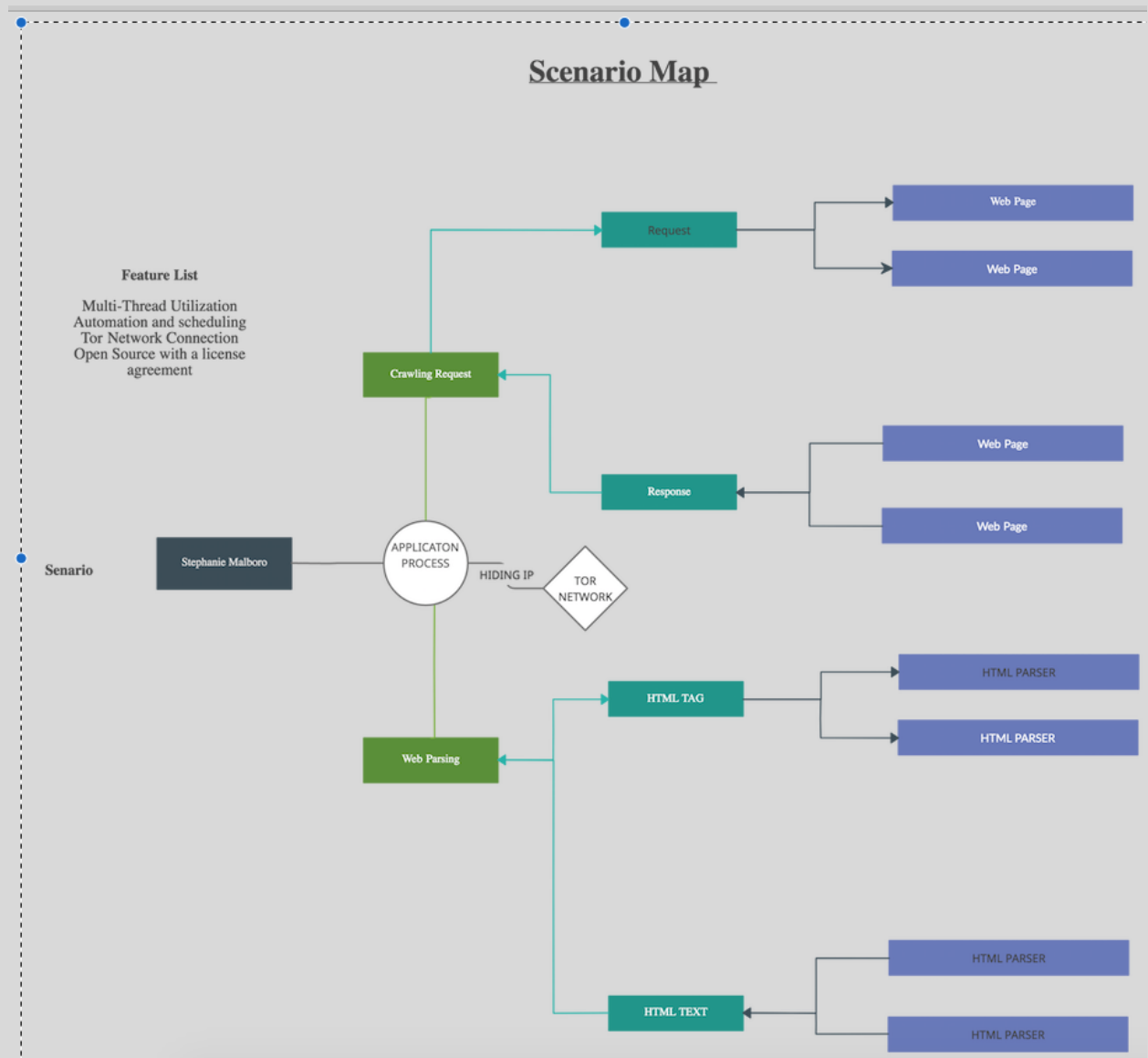| Feature	Description
1. Multi-Thread Utilization	Efficiently utilizing hardware
2. Automation and scheduling	Preventing network congestion
3. Tor Network Connection	To anonymous the source sender
4. Open Source with a license agreement	To customize the Python code to customer needs

Persona:

Stephanie Malboro

Name
Stephanie Malboro

Job Title
Network Prenetration Tester

Age
25 to 34 years

Highest Level of Education
Master's degree (e.g. MA, MS

Social Networks

Industry
Technology

Organization Size
11-50 employees

Preferred Method of Communication

- Phone
- Email
- Face-To-face

Tools They Need to Do Their Job

- Invoicing Software
- Email
- Project Management
- Cloud-Based Storage & File Sharing Applications
- Reporting Software

Job Responsibilities

Scan websites and report exploits and bugs

Their Job Is Measured By

Test Network and website for vulnerabilities

Reports to

Supervisor

Goals or Objectives

Grow his Company

They Gain Information By

Biggest Challenges

Scenario Map:

Scenario Map

Feature List

Multi-Thread Utilization
Automation and scheduling
Tor Network Connection
Open Source with a license
agreement

Senario

- Stephanie Malboro, Female, 26, IT Penetration Tester

- As an IT Penetration Tester, I want to scan the contents on a website so I can check for security vulnerabilities. I now work for an IT security company that specializes in website protection.

Scenario:

Stephanie is now tasked with scanning the company's website for vulnerabilities and creating a report for the security team to address. The website scan should be exported into a CSV file showing the HTTP request information.

User Stories:

- As a Penetration Tester, I would like to scan websites for vulnerabilities.
- As a Penetration Tester, I want to schedule tasks for web scanning.
- As a Penetration Tester, I want to save the output into a CSV file.
- As a Penetration Tester, I want to make the source of my traffic anonymous to simulate an attacker

Features List:

Feature	Description
5. Multi-Thread Utilization	Efficiently utilizing hardware
6. Automation and scheduling	Preventing network congestion
7. Tor Network Connection	To anonymous the source sender
8. Open Source with a license agreement	To customize the Python code to customer needs