E-MAIL CLASSIFIERS

BY,

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Functional Requirements:

- Email Classification Application Login Page, Home Page
- Front-end for the email application
- Dataset creation and collection
- Training Sample Set Creation
- Key-Value pair dictionary creation
    1. Processing of Email 'From'
    2. Processing of Email 'Subject'
    3. Processing of Email 'Body'
- Classification Rules (Algorithm)

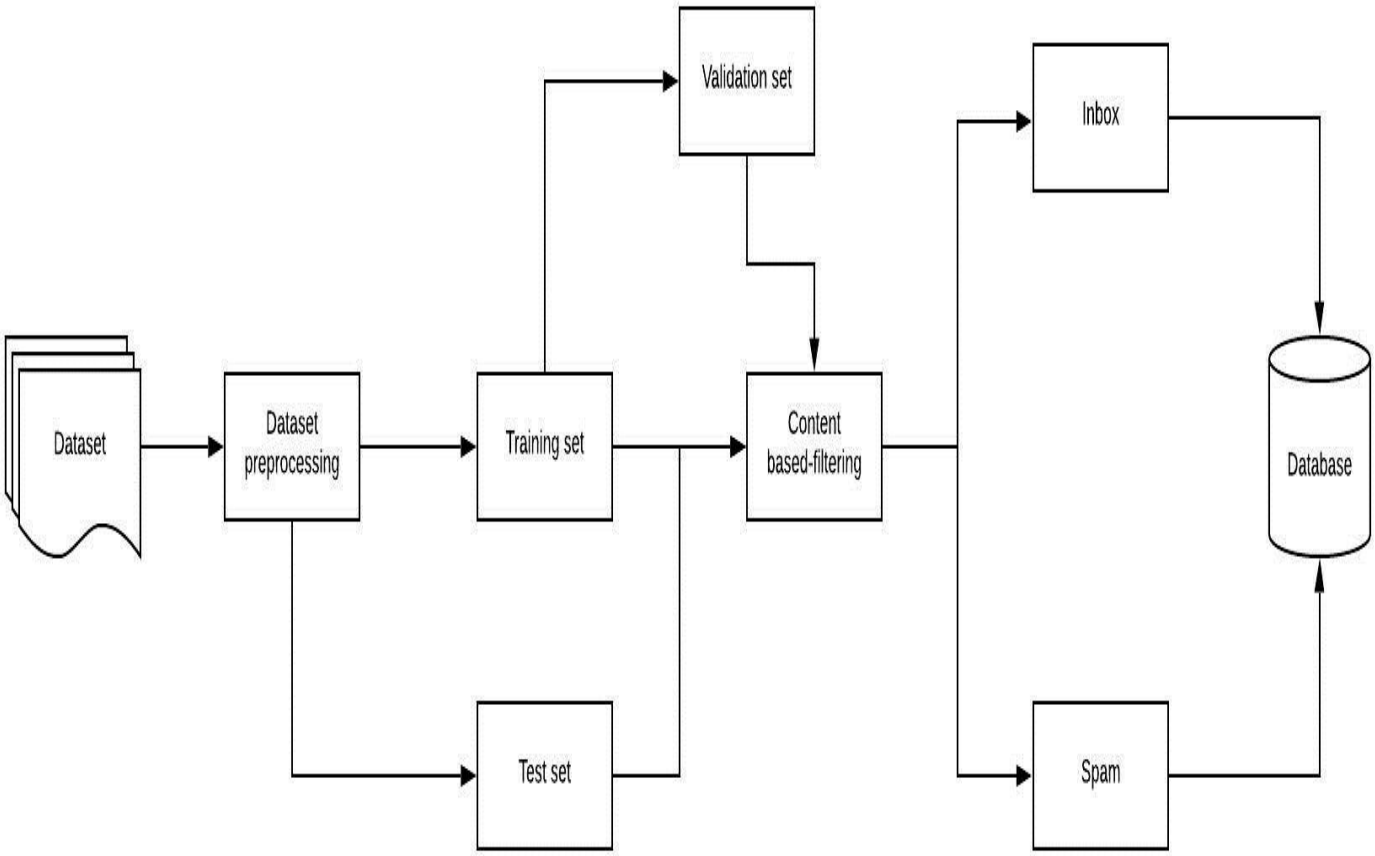
System Requirements:

- IDE Tool – Visual Studio 2019 is the new edition of Visual Studio, which allows creating apps in one unified Integrated Development Environment (IDE). It supports different built-in languages
  like C, C++, VB.NET, C#.
- Programming Language – The programming language used in the implementation is C#. C# is an
  object-oriented language designed for Microsoft's .NET framework.

Non-Functional Requirements:

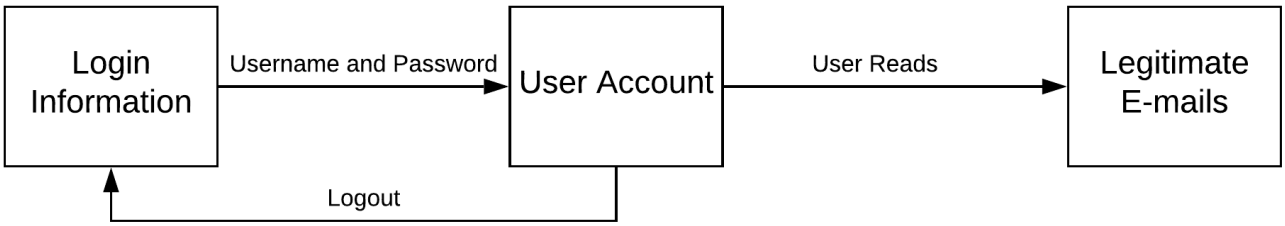
- Scalability: The system can accommodate additional features at a further point in time with
- respect to requirement, like further classifications into Social Media, e-Commerce etc.
- Inter-Operability: The system can be operable on all devices.
- Security: Login credentials are stored securely.
- Usability: Any standalone device can run the system.
- Availability: The system stays available at all times.

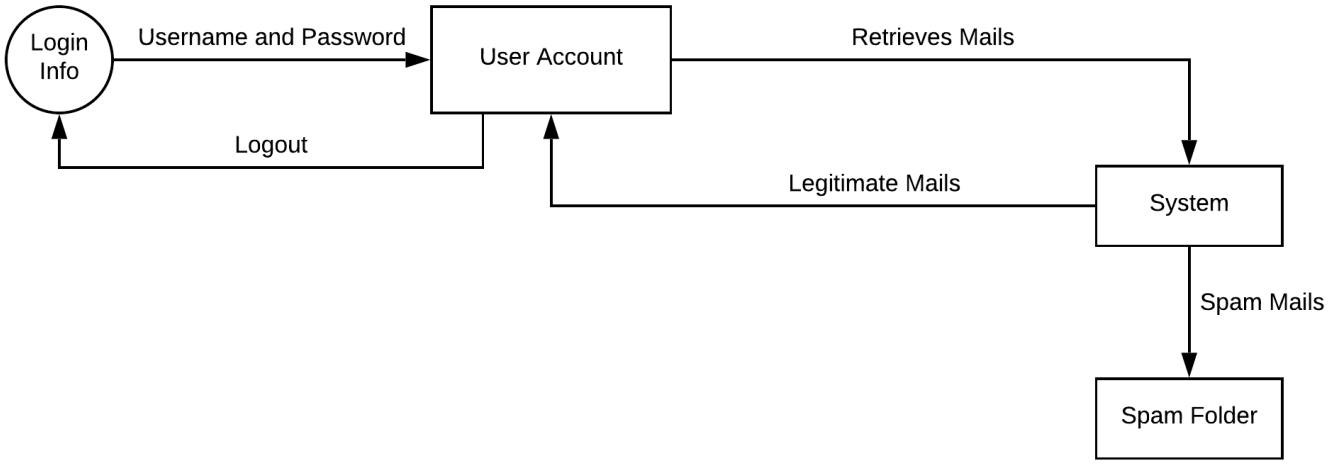
ARCHITECTURE



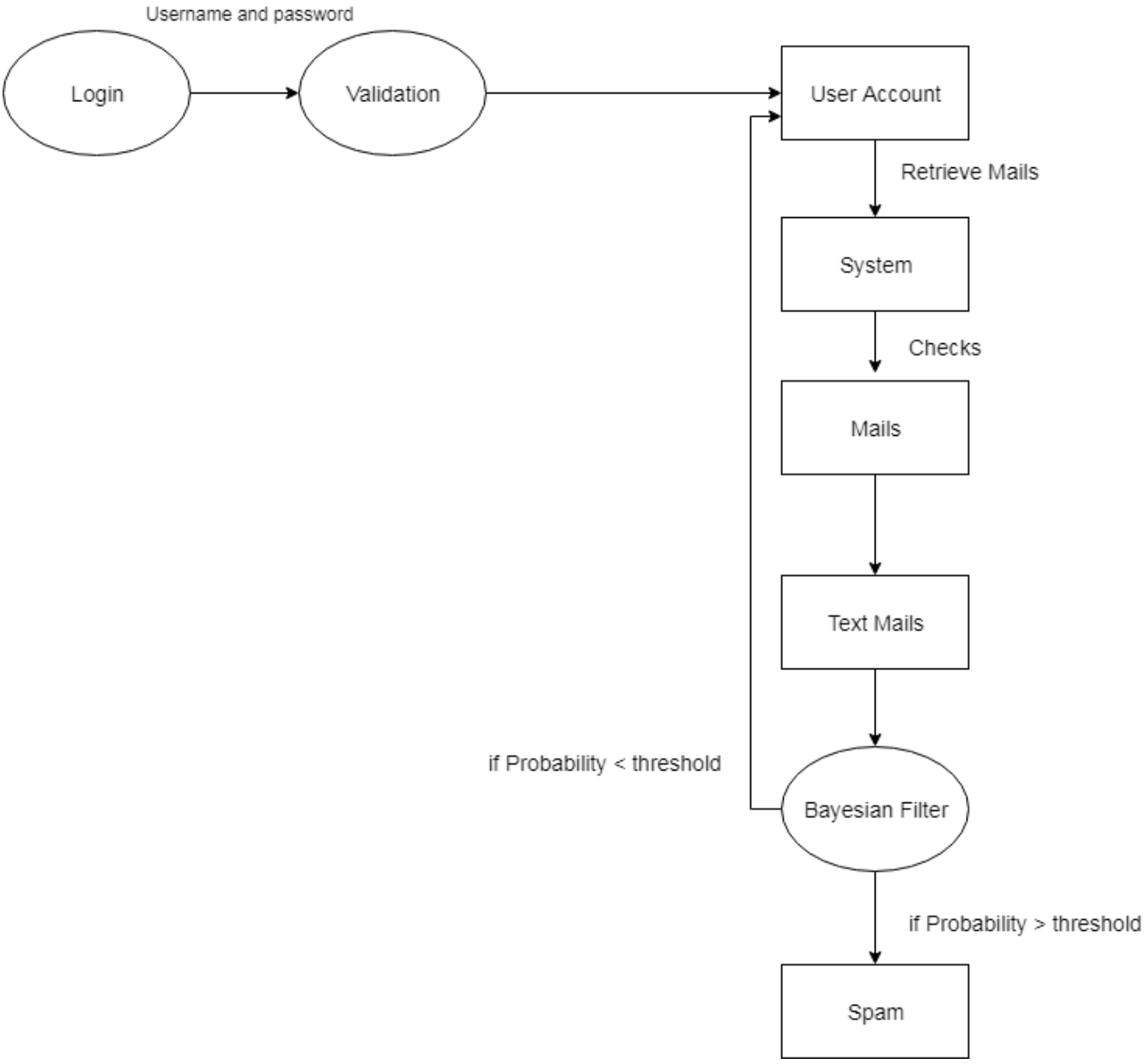
DATA FLOW DIAGRAMS

Level 0,1 & 2

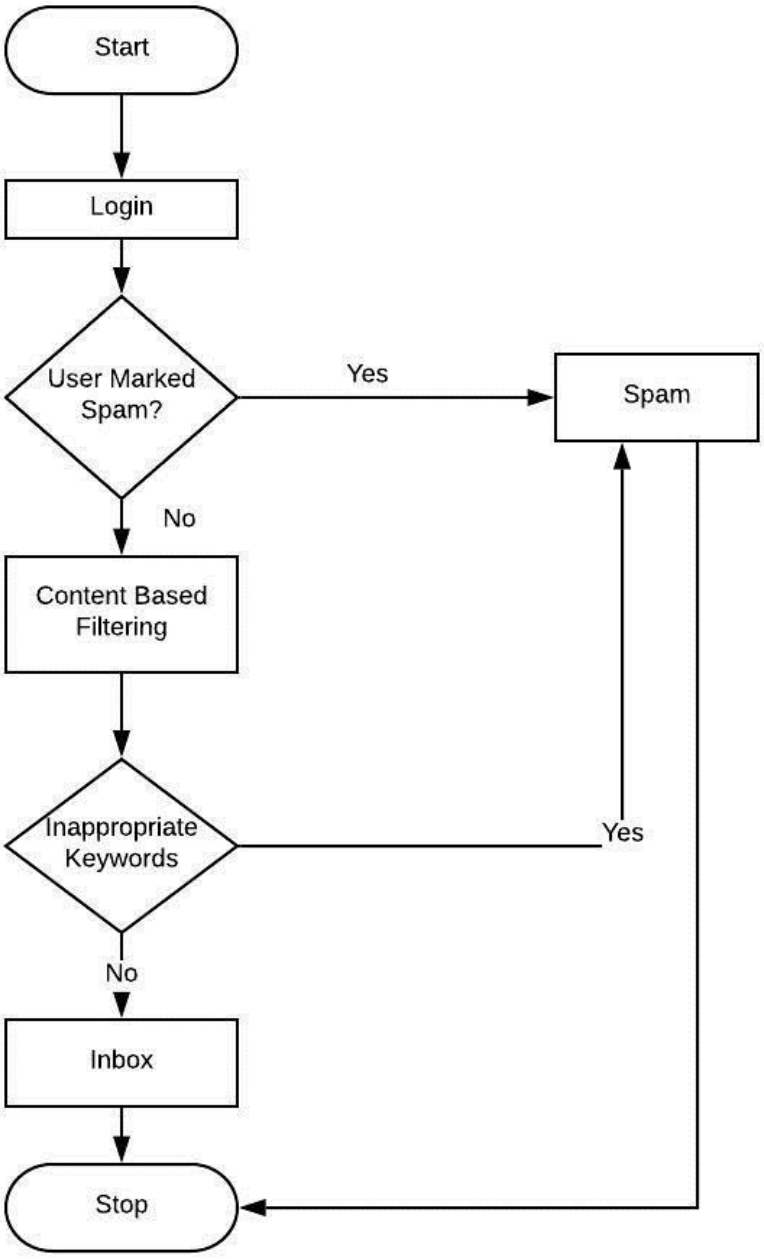




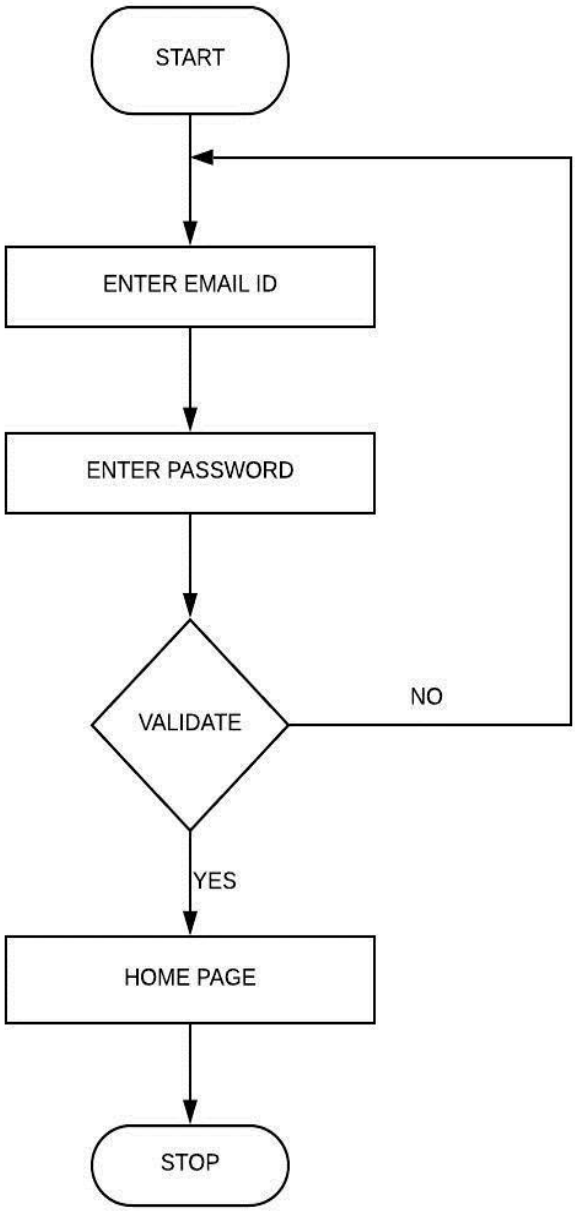
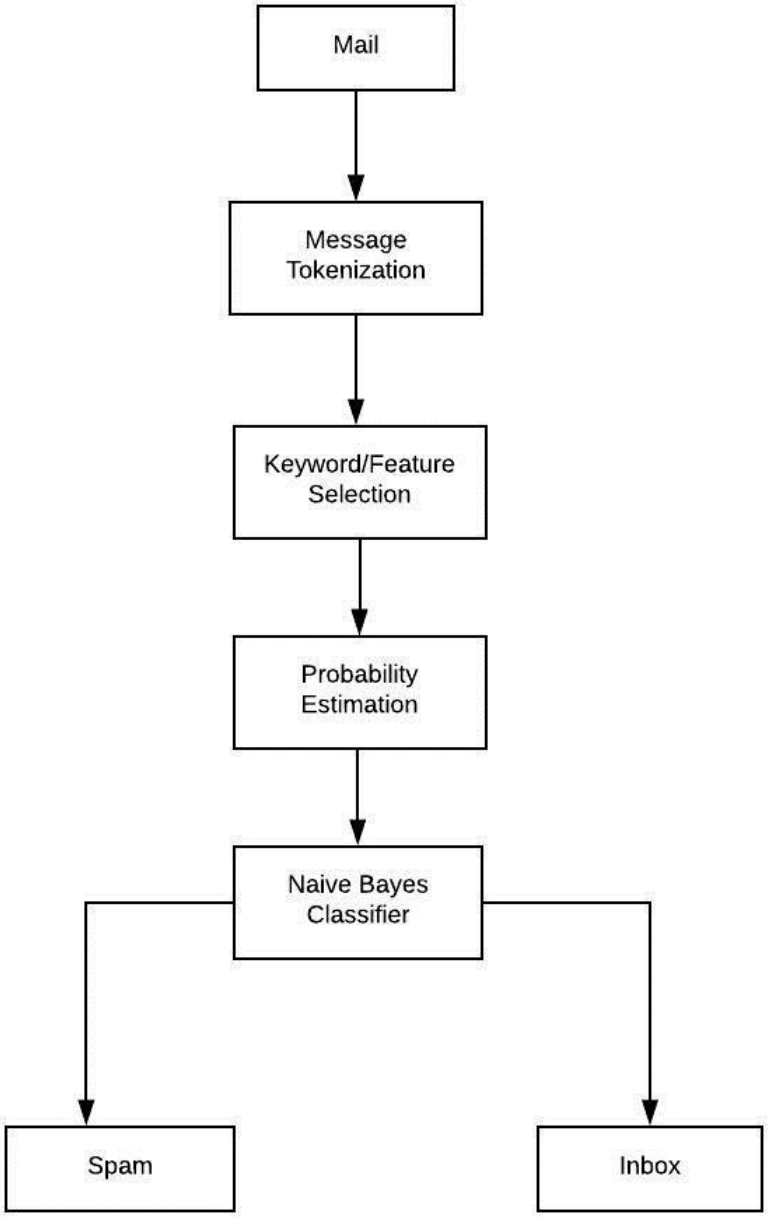
DFD 2:


Username and password
Login
Validation
User Account
Retrieve Mails
System
Checks
Mails
Text Mails
if Probability < threshold
Bayesian Filter
if Probability > threshold
Spam

FLOW CHARTS


Start
Login
User Marked Spam?
Yes
Spam
No
Content Based Filtering
Inappropriate Keywords
Yes
No
Inbox
Stop

Login Page


START
ENTER EMAIL ID
ENTER PASSWORD
VALIDATE
NO
YES
HOME PAGE
STOP

Bayesian Filter