

WEB PHISHING DETECTION PROJECT REPORT

Submitted By

HARINI B	210819205011
JAYASRI S	210819205017
HARINI D	210819205012
SAFANA PARVEEN J	210819205041

In partial fulfilment for the award of the degree

Of

BACHELOR OF TECHNOLOGY

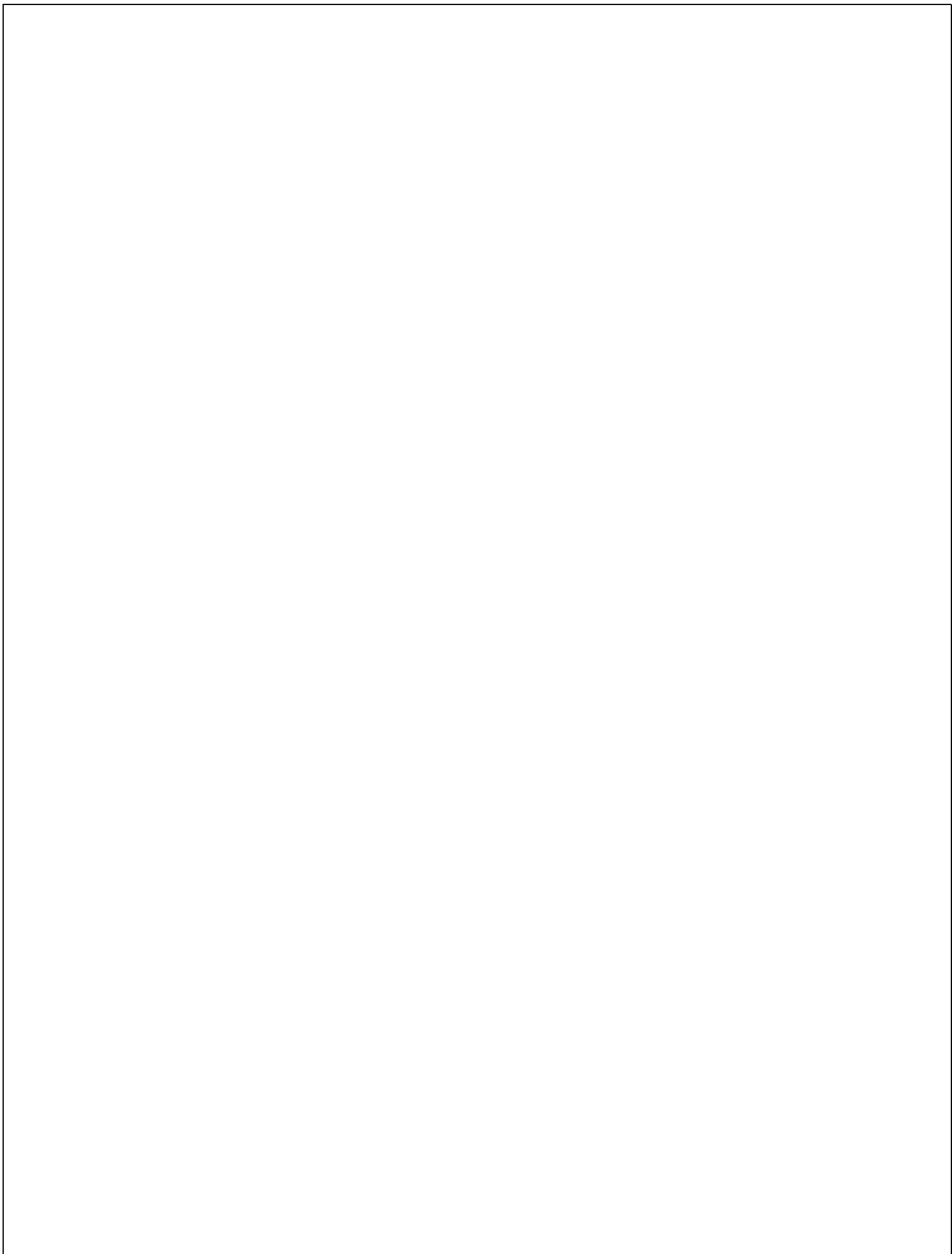
In

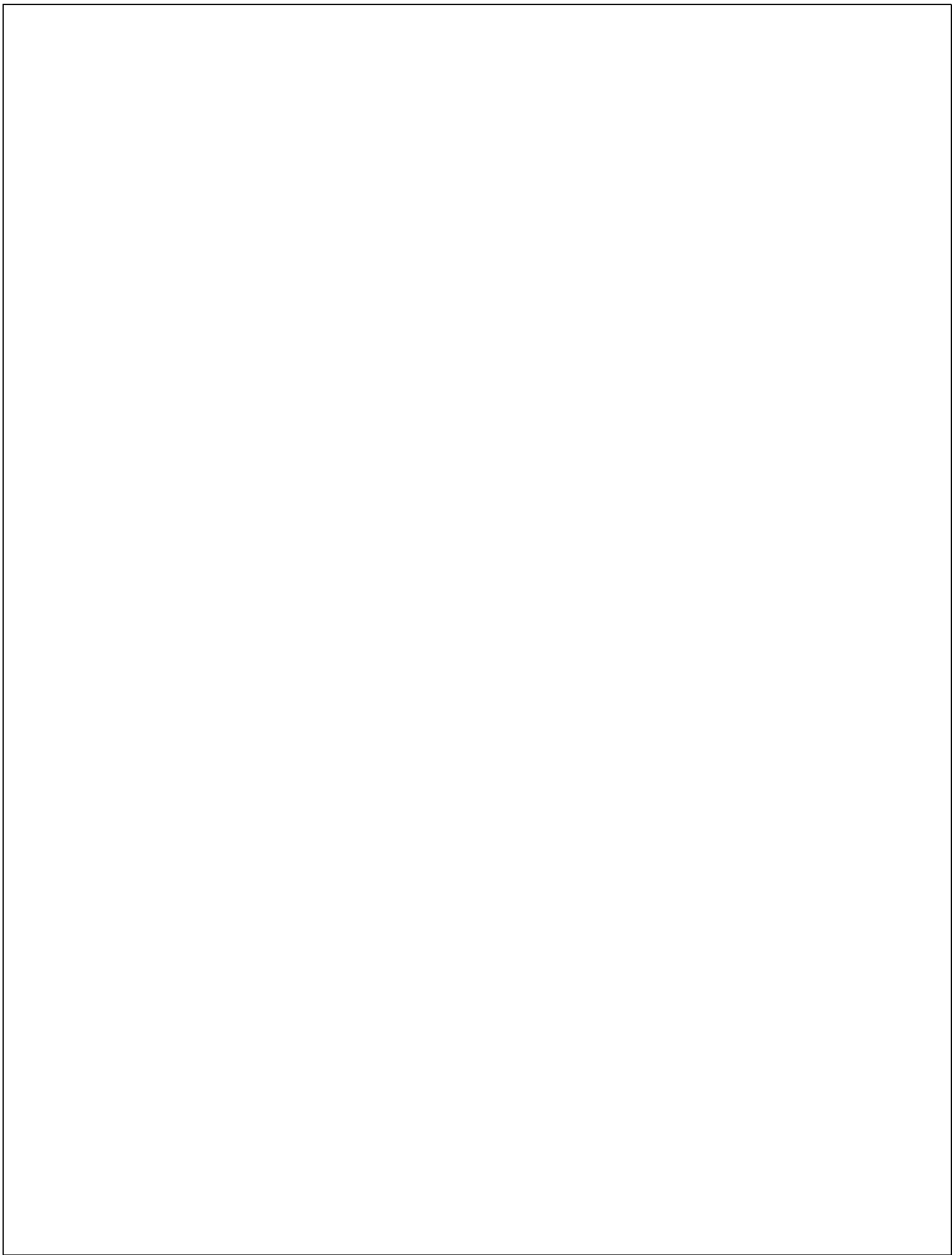


INFORMATION TECHNOLOGY

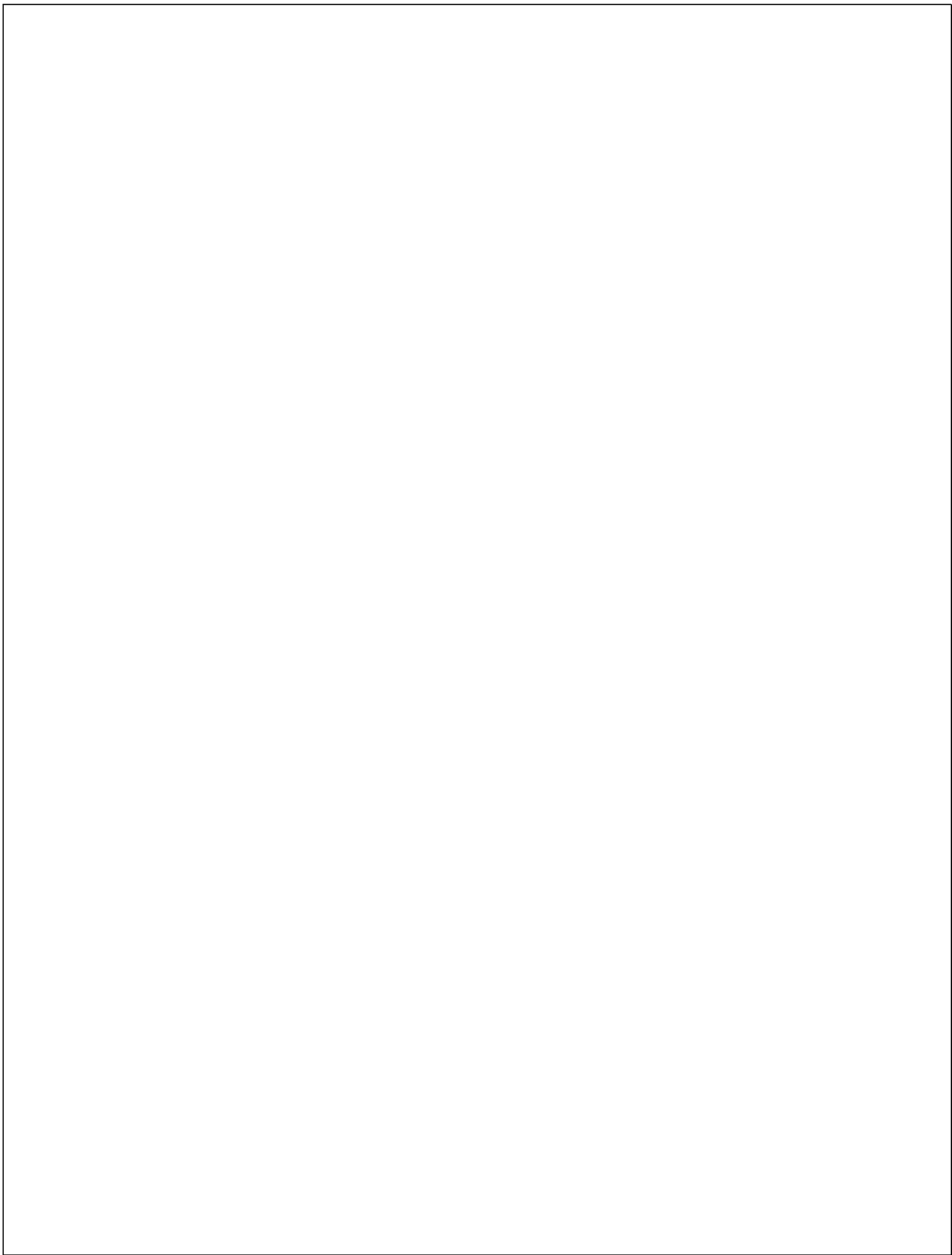
KINGS ENGINEERING COLLEGE, IRUNGATTUKOTAI

ANNA UNIVERSITY: CHENNAI 600025









[FUNCTIONAL REQUIREMENTS](#)

[10](#)

[NON-FUNCTIONAL
REQUIREMENTS 11](#)

PROJECT DESIGN

[DATA FLOW DIAGRAMS 12](#)

SOLUTION AND TECHNICAL
ARCHITECTURE 13

[USER STORIES 13](#)

[Application Characteristics 14](#)

PROJECT PLANNING AND SCHEDULING

SPRINT PLANNING AND
ESTIMATION 15

[SPRINT DELIVERY SCHEDULE](#)

[16](#)

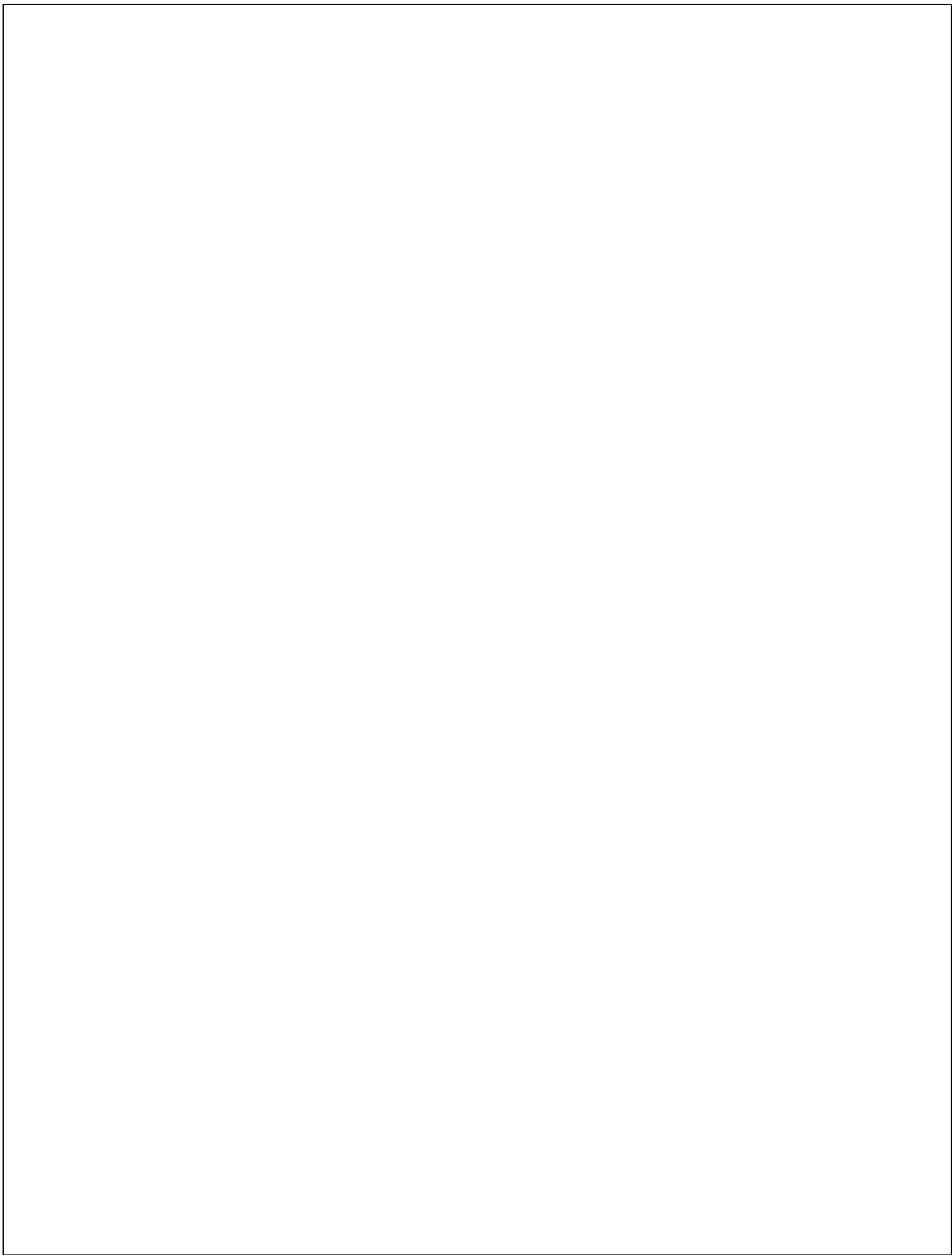
[REPORTS FROM JIRA 16](#)

CODING AND SOLUTIONING

FEATURE 1: PREDICTION
MODEL 17

FEATURE 2: DASHBOARD 24

FEATURE 3: LOGIN 26



CHAPTER 1

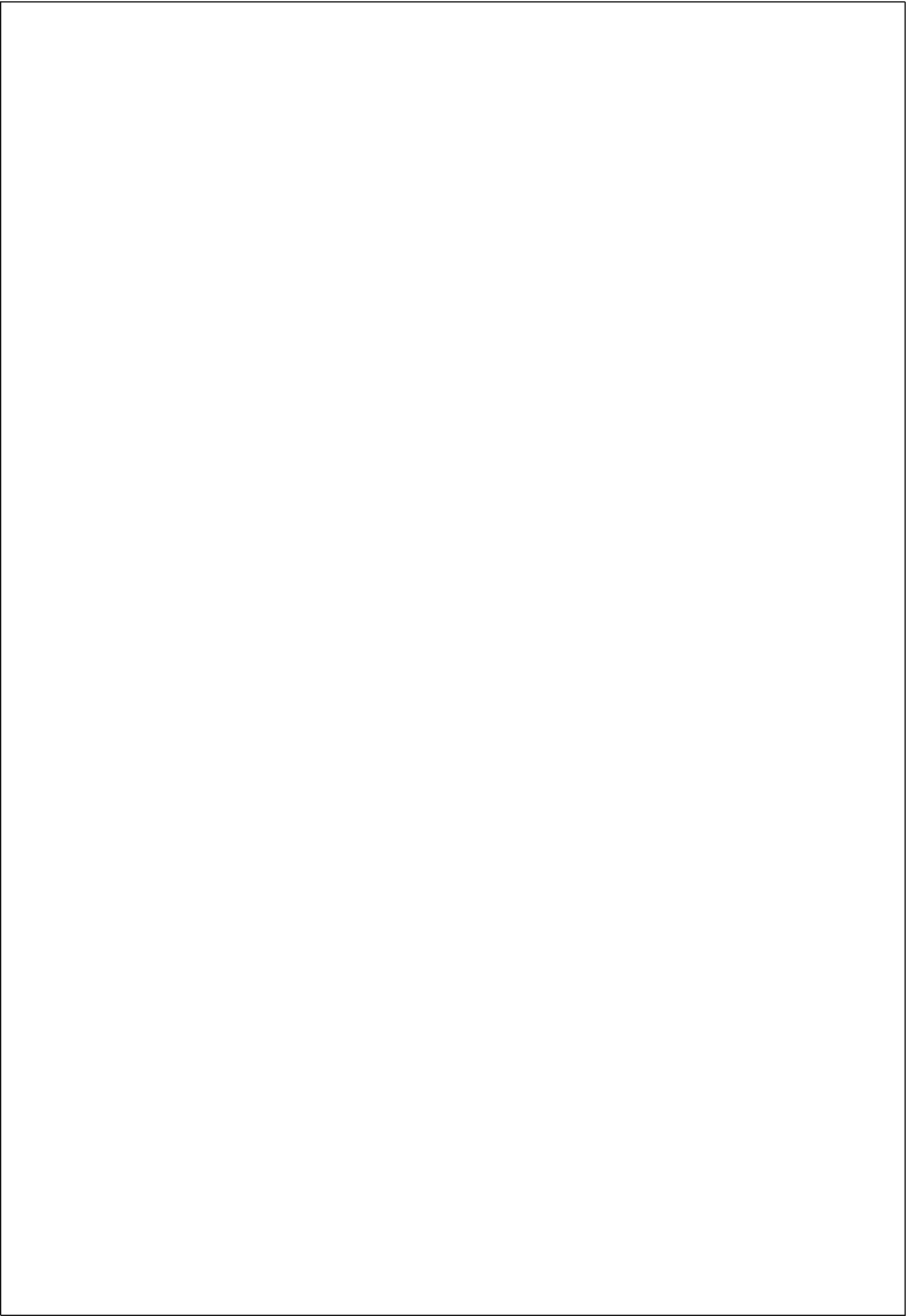
INTRODUCTION:

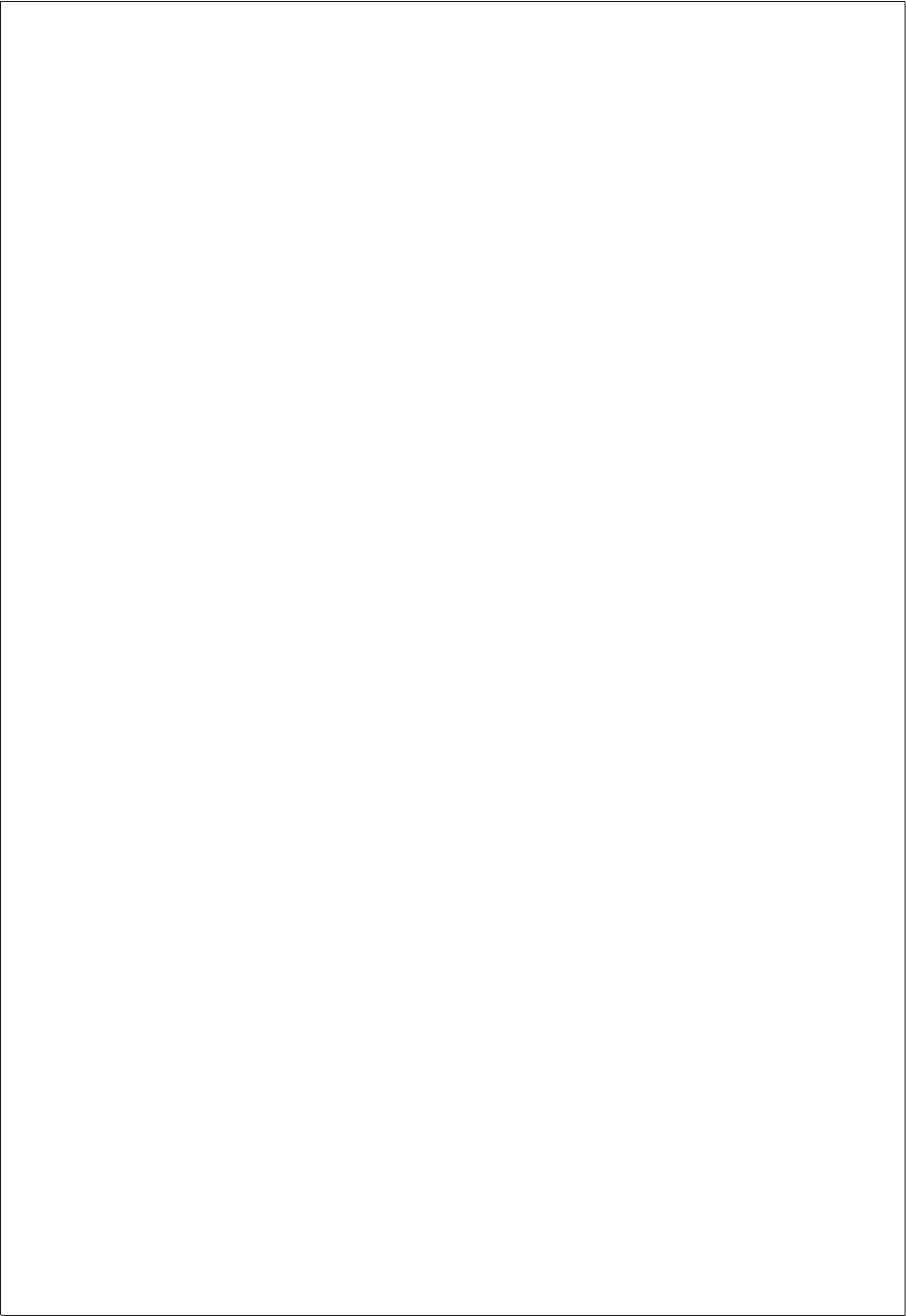
: PROJECT OVERVIEW

The terms "heart disease" and "cardiovascular disease" are frequently used interchangeably. Heart disease is a general term that covers a wide range of heart related medical conditions. The irregular health state that directly affects the heart and all of its components is characterized by these medical conditions. In order to forecast cardiac disease, this study discusses various data mining, big data, and machine learning techniques. Building an important model for the medical system to forecast heart disease or cardiovascular illness requires the use of data mining and machine learning. Our application helps the user in finding out if they have heart disease or not. They can find out by entering details such as their heart rate, cholesterol, blood pressure etc. A dashboard is also attached along with the results for better understanding where they can compare their blood pressure and similar metrics with other users. This project focuses on Random Forest Classifier. The accuracy of our project is 87% for which is better than most other systems in terms of achieving accuracy quickly.

: PURPOSE

This project's goal is to determine, depending on the patient's medical characteristics—such as gender, age, chest pain, fasting blood sugar level, etc.—whether they are likely to be diagnosed with any cardiovascular heart illnesses. The leading cause of death in the developed world is heart disease. Heart disease cases are rising quickly every day, thus it's crucial and worrisome to predict any potential illnesses in advance. This diagnosis is a challenging task that requires accuracy and efficiency. Therefore, there needs to be work done to help prevent the risks of having a heart attack or stroke. It is the main factor in adult deaths. By using a person's medical history, our initiative can identify





Empathy Map Canvas

Gain insight and understanding on solving customer problems.

1 Build empathy and keep your focus on the user by putting yourself in their shoes.



Share your feedback

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

⌚ 10 minutes

TIP

You can select a sticky note and hit the pencil (switch to sketch) icon to start drawing

HARINI.D

non technical users should be able to understand

should be able to identify urls without ssl certificate

integratable with popular web browsers

HARINI.B

accuracy scores displayed

maybe show threat levels also

trust scores for websites

JAYASRI.S

show stats to user maybe

implement one time login system?

SAFANA PARVEEN.J

should warn users before they complete the transaction

URL Redirection

DNS input

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you can break it up into smaller sub-groups.

⌚ 20 minutes

TIP

Add customizable tags to sticky notes to make it easier to find, browse, organize, and categorize important ideas as they're within your mind.

ACTIVITY

Unwanted request for permission to access camera/location and so on

Stealing of user credentials

Unprofessional website design

URL

Domain Identity

Anomalies in redirection

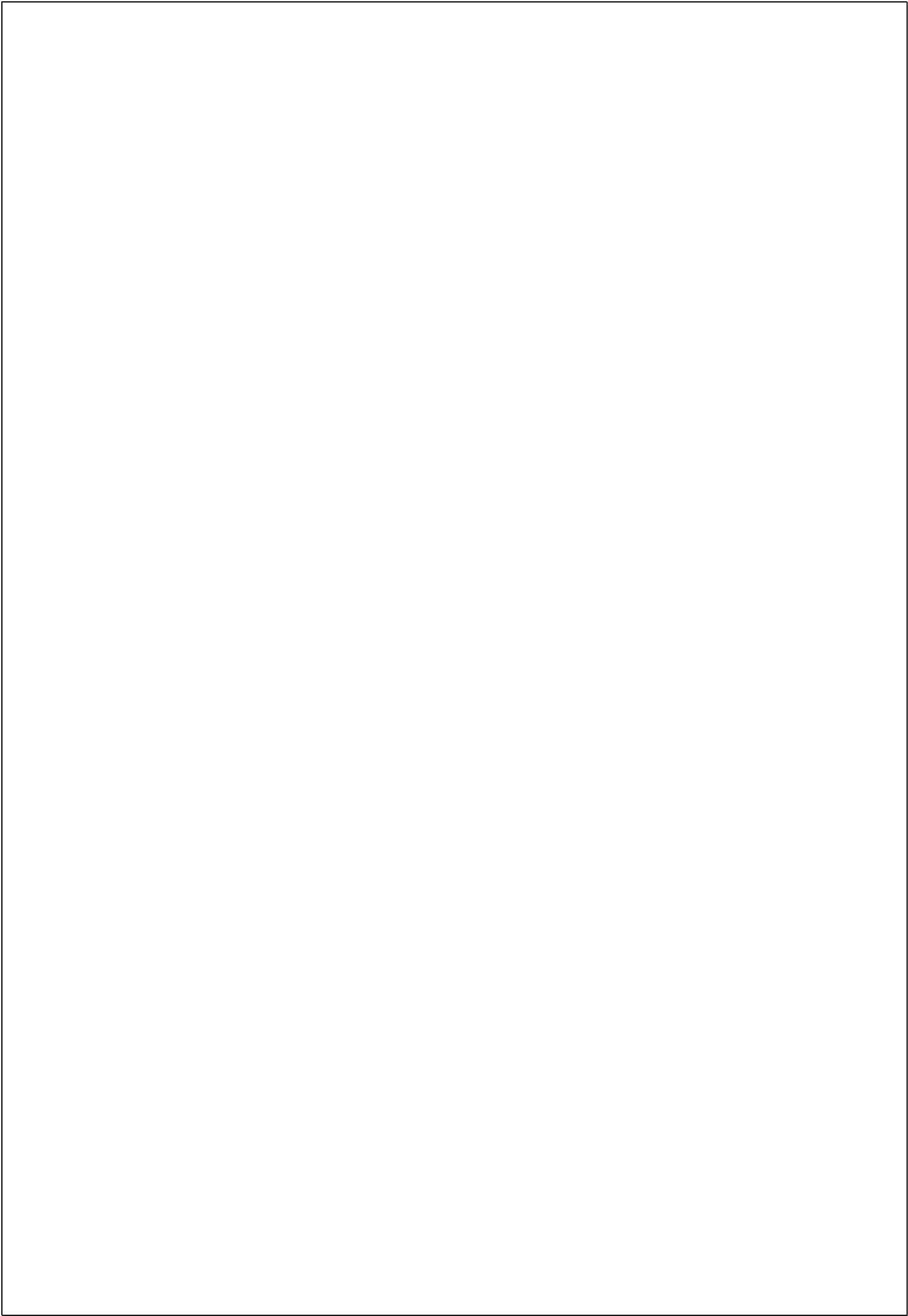
Https links

SOURCE

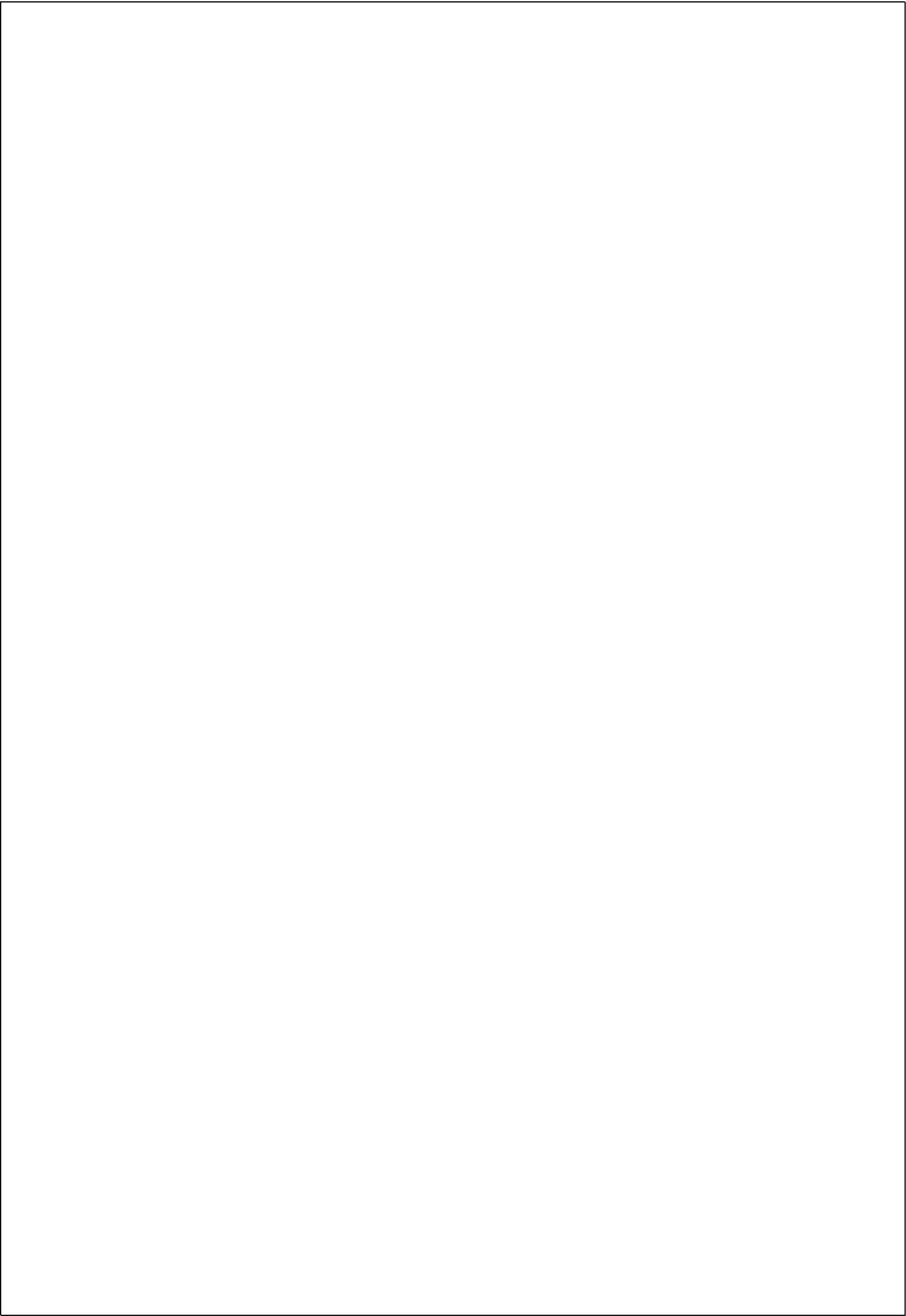
Spam messages or emails

Trusted - From the bank

From forwarded messages or third party redirects

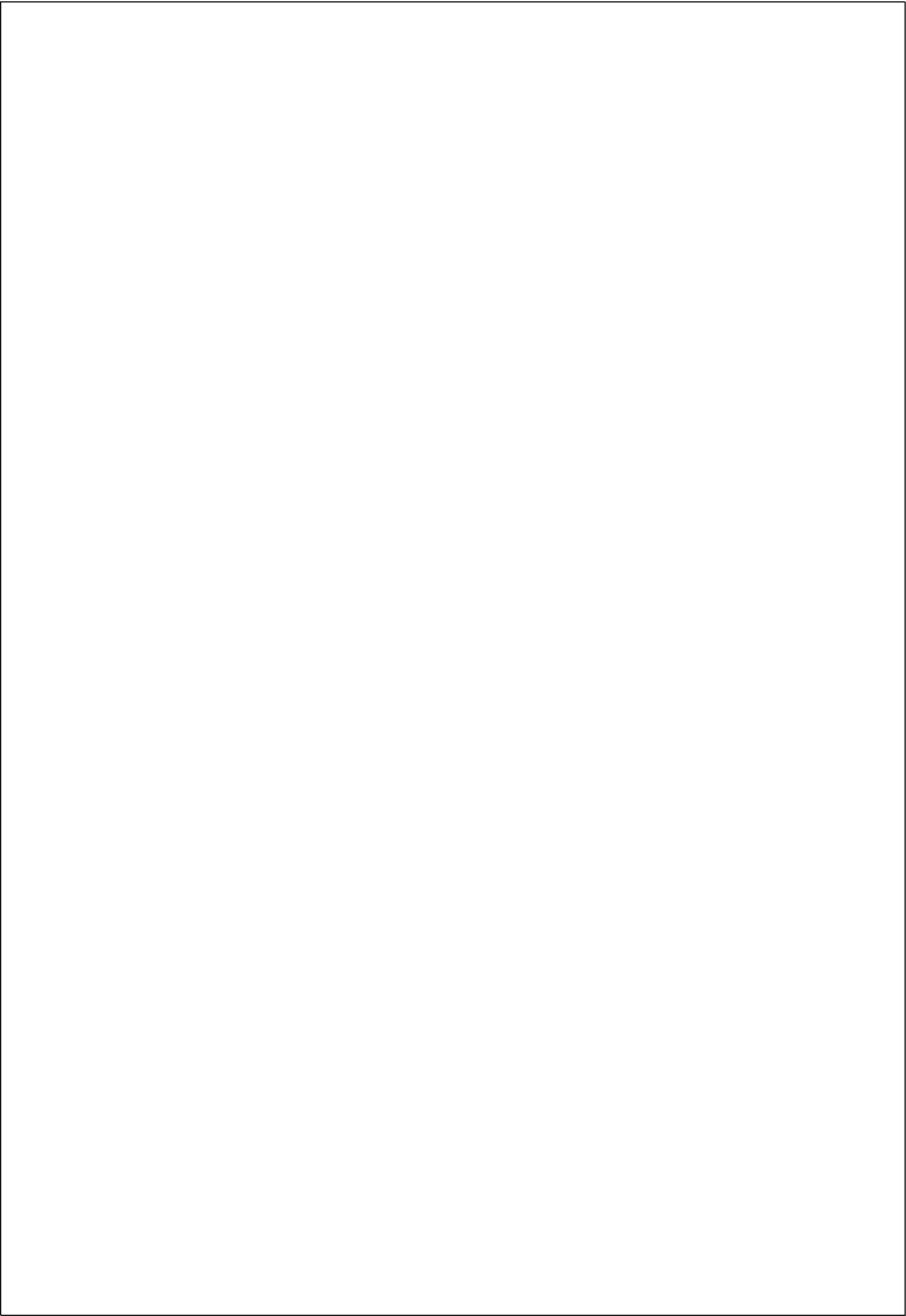


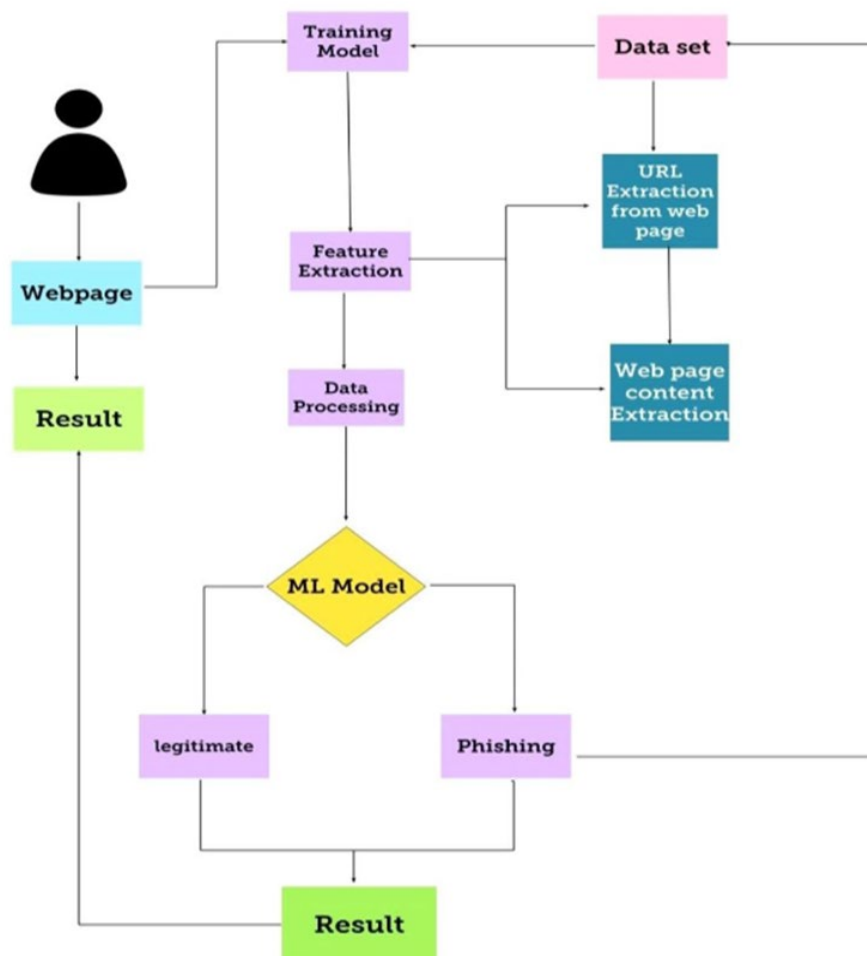
accuracy of 98.48% with 2.09% false-positive rate on benchmark dataset, which outperforms the existing baseline approaches.

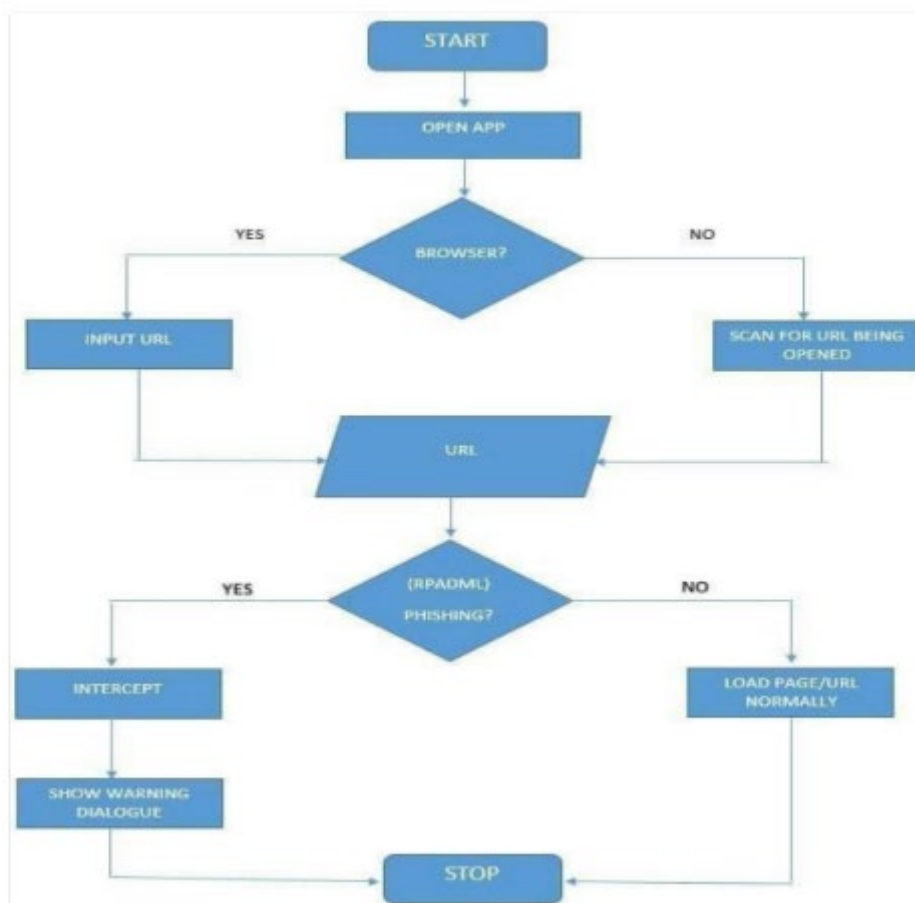


S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Hackers are increasingly launching attacks via SMS and social media. Games and dating apps introduce yet another attack vector. However, current deep learning-based phishing detection applications are not applicable to mobile devices due to the computational burden.
2.	Idea / Solution description	Our solution that helps the user to detect and protect themselves from the spam and dangerous websites. Our application protect your personal information from the third party. We make you feel safe all the time.
3.	Novelty / Uniqueness	There are various anti-phishing techniques are there but we are different from others. We analysis the system as soon as we notice the indifference in the system. Our uniqueness is we are very user friendly application that makes yours information keeps safe and private.
4.	Social Impact / Customer Satisfaction	The customer can work with their transaction peacefully. We provide a safe and secure feel to our user. We develop a app that check the websites with the high efficiency way. We identify and remediate phishing threats before the phishing attack can cause damage.
5.	Scalability of the Solution	We automate various routine remediation process in response to threats, saving admins more time and reducing the time it takes to identify and remediate high-tier vulnerabilities

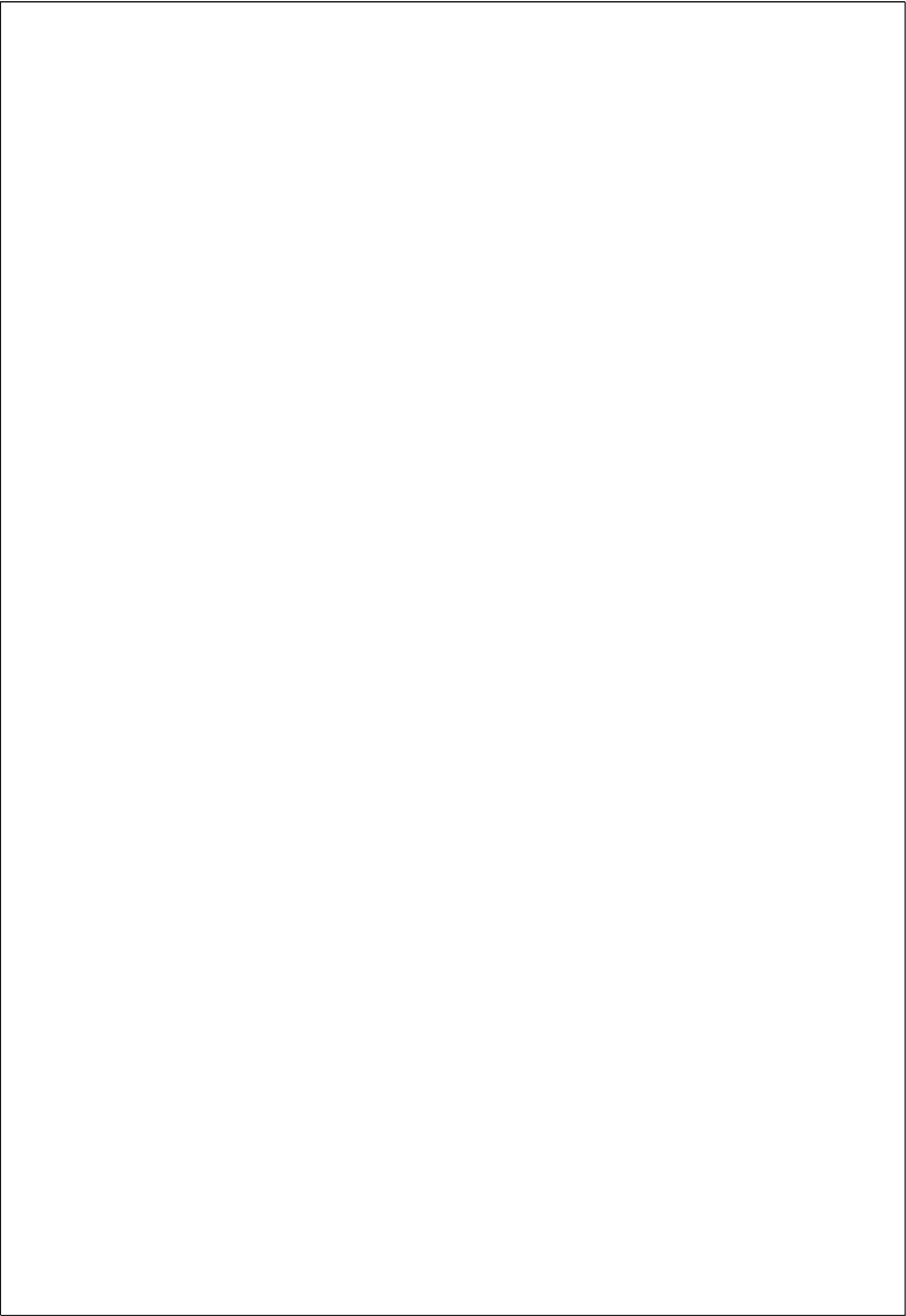
User Type	Functional Requirement	User Story Number	User Story/Task	Acceptance criteria	Priority	Release
Customer (Mobile User)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account/dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmation email once I have registered for the application	I can receive confirmation email and confirmation	High	Sprint-1
		USN-3	As a user, I can register for the application through Facebook	I can register and access the dashboard with Facebook Login	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail	•	Medium	Sprint-1
	Login	USN-5	As a user, I can log into the application by entering email & password		High	Sprint-1
	Dashboard					
Customer (Web User)	User Input	USN-1	As the user I can input the particular URL in the required field and waiting for a validation	I can go access the website without any problem	High	Sprint-1
Customer Care Executive	Feature Extraction	USN-1	After I compare in case if none found on comparison then we can extract feature using heuristic and visual similarity	In this I can have comparison between websites for security	High	Sprint-1







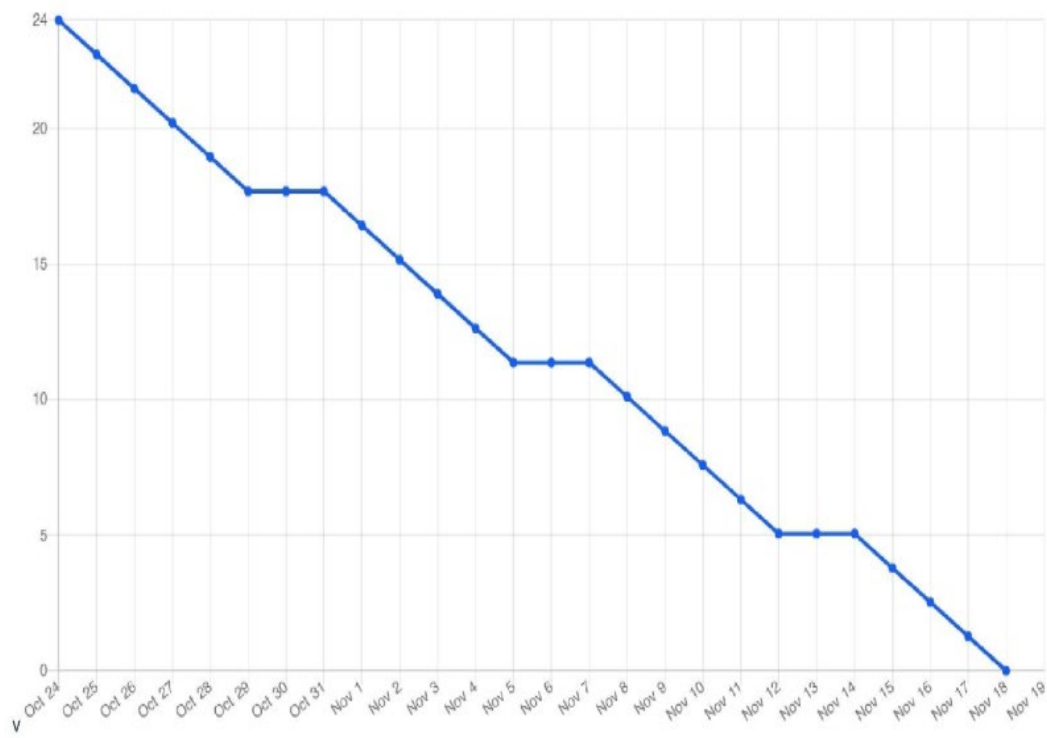
7.	Improve model performance	Accuracy is one metric for evaluating classification models. Informally, accuracy is the fraction of predictions our model got right.	Machine Learning
8.	Checking accuracy	A data accuracy check, sometimes called a data sanity check, is a set of quality validations that take place before using data.	Machine Learning

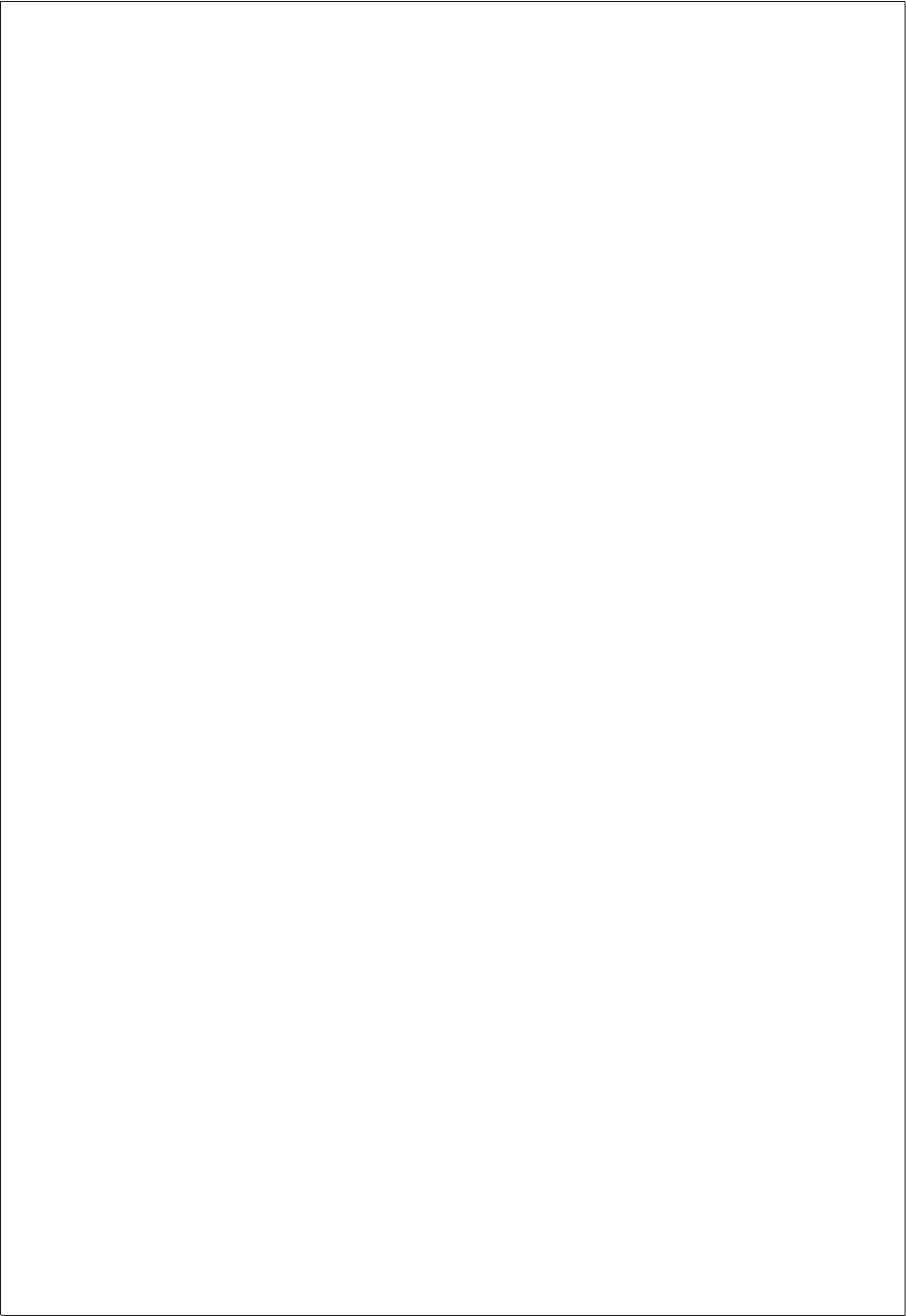


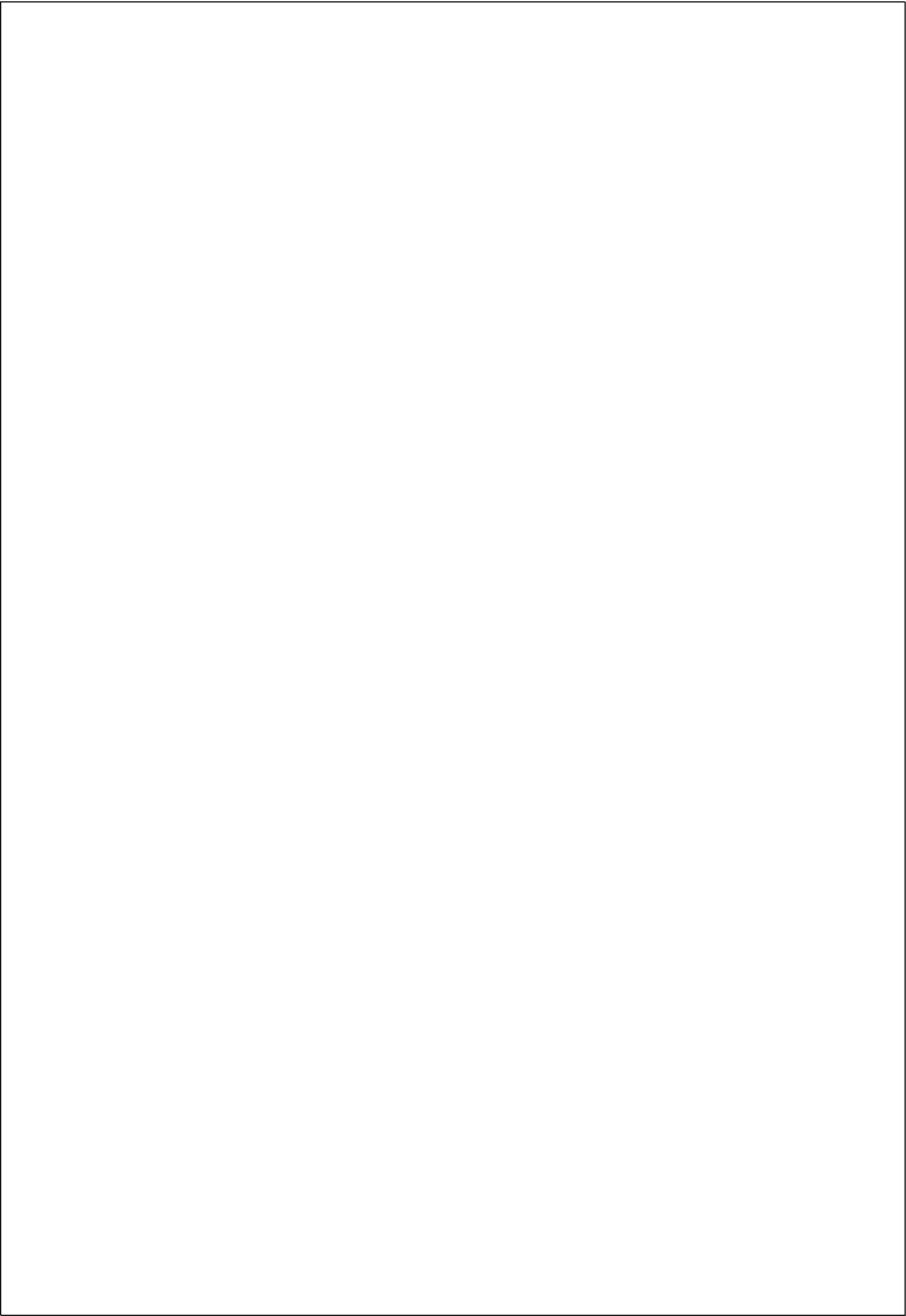
Product Backlog, Sprint Schedule, and Estimation (4 Marks)

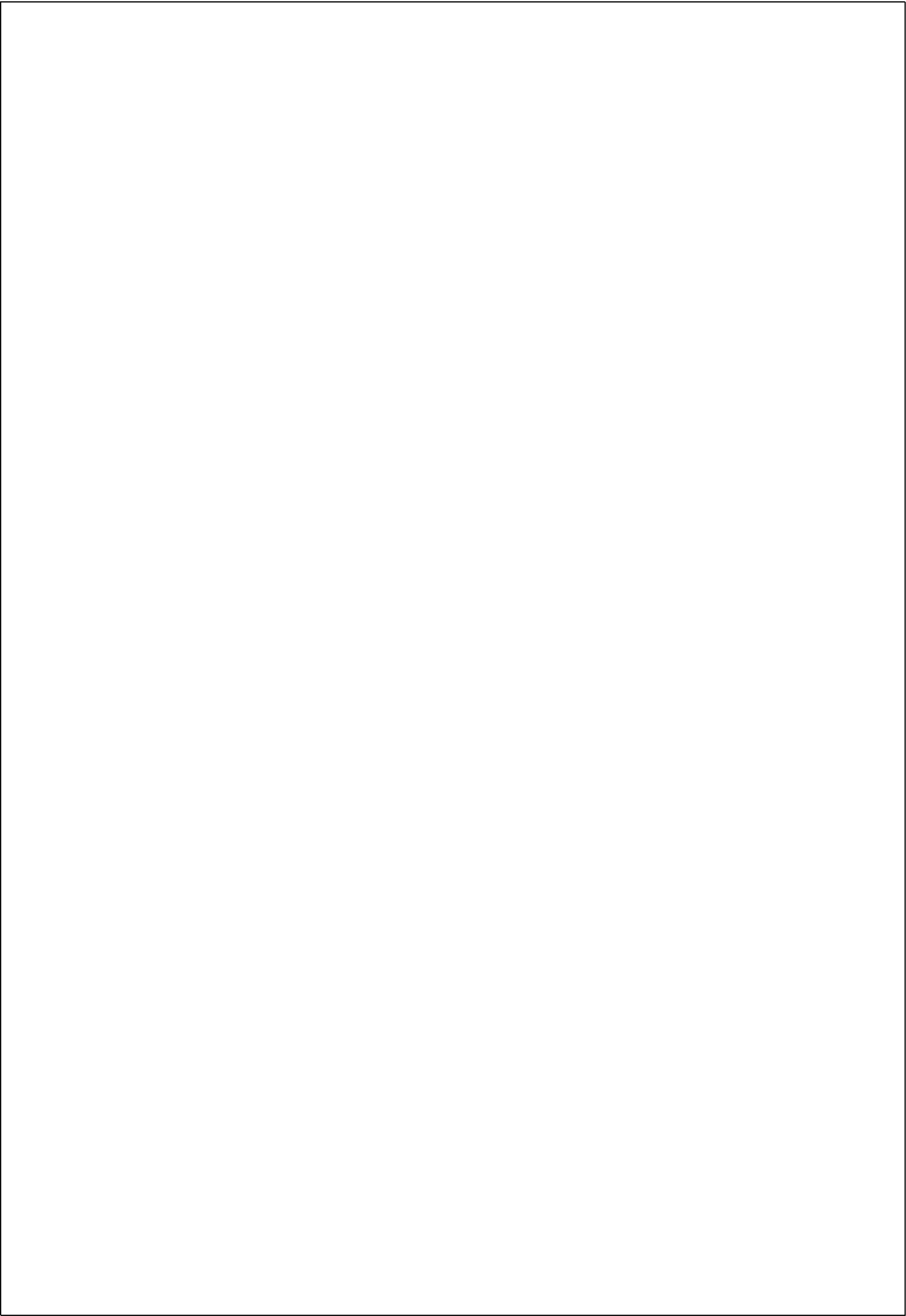
Use the below template to create product backlog and sprint schedule

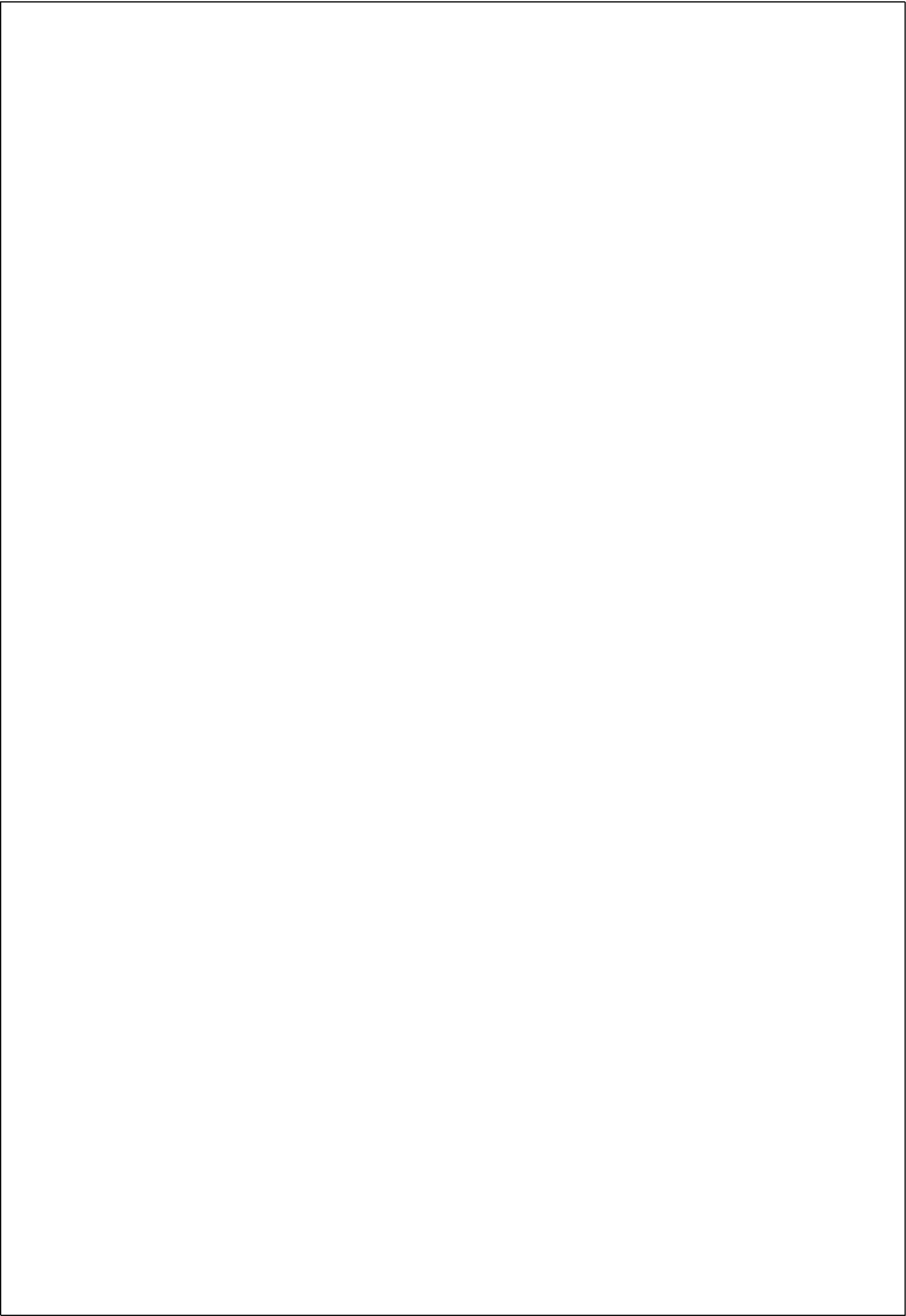
Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User input	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	HARINI.B
Sprint-1	Website Comparison	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	JAYASRI.S,SAFANA PARVEEN
Sprint-2	Feature Extraction	USN-3	As a user, I can register for the application through Facebook	2	Low	HARINI.D
Sprint-1	Prediction	USN-4	As a user, I can register for the application through Gmail	2	Medium	HARINI.B,SAFANA PARVEEN
Sprint-1	Classifier	USN-5	As a user, I can log into the application by entering email & password	1	High	JAYASRI.S

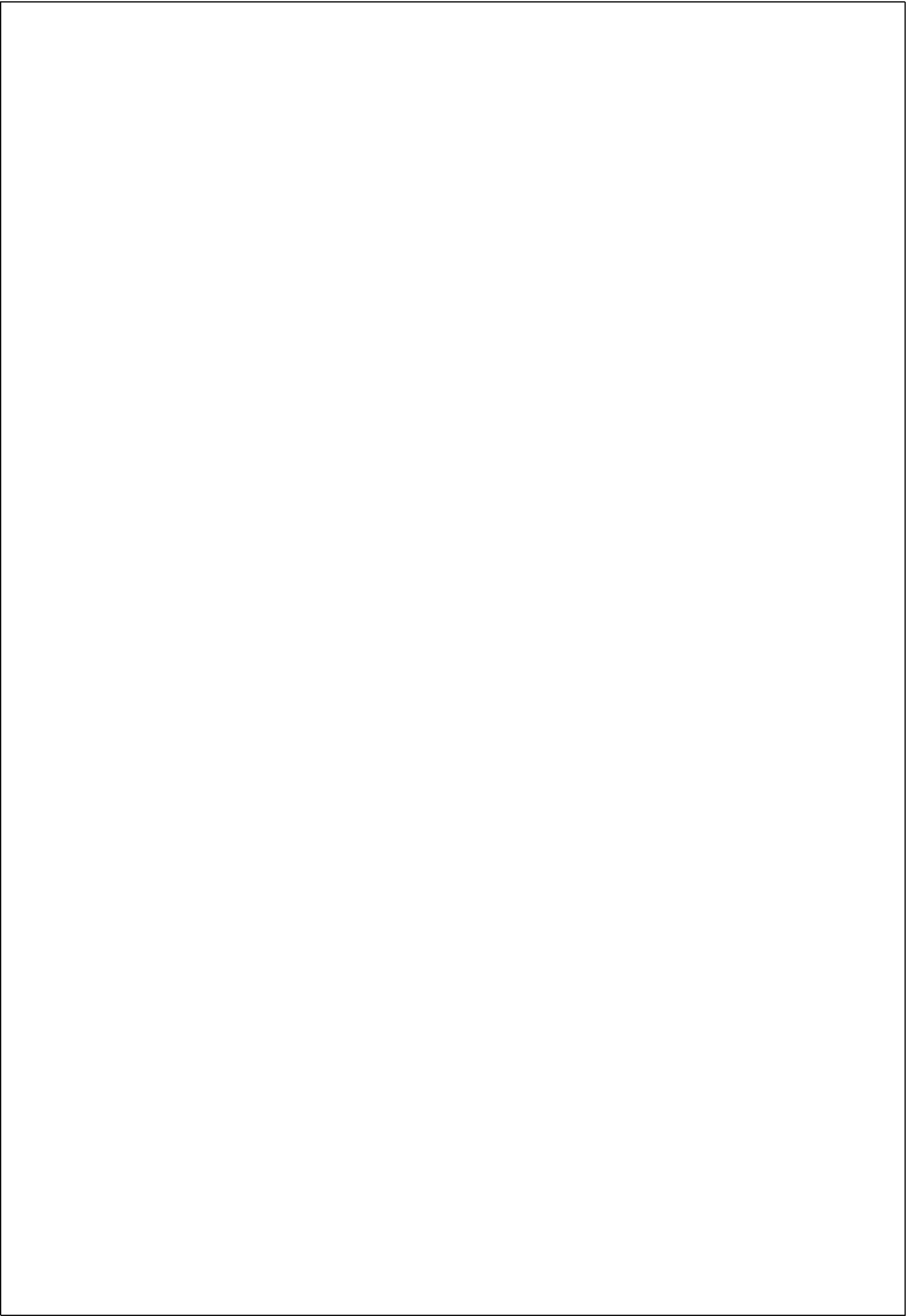


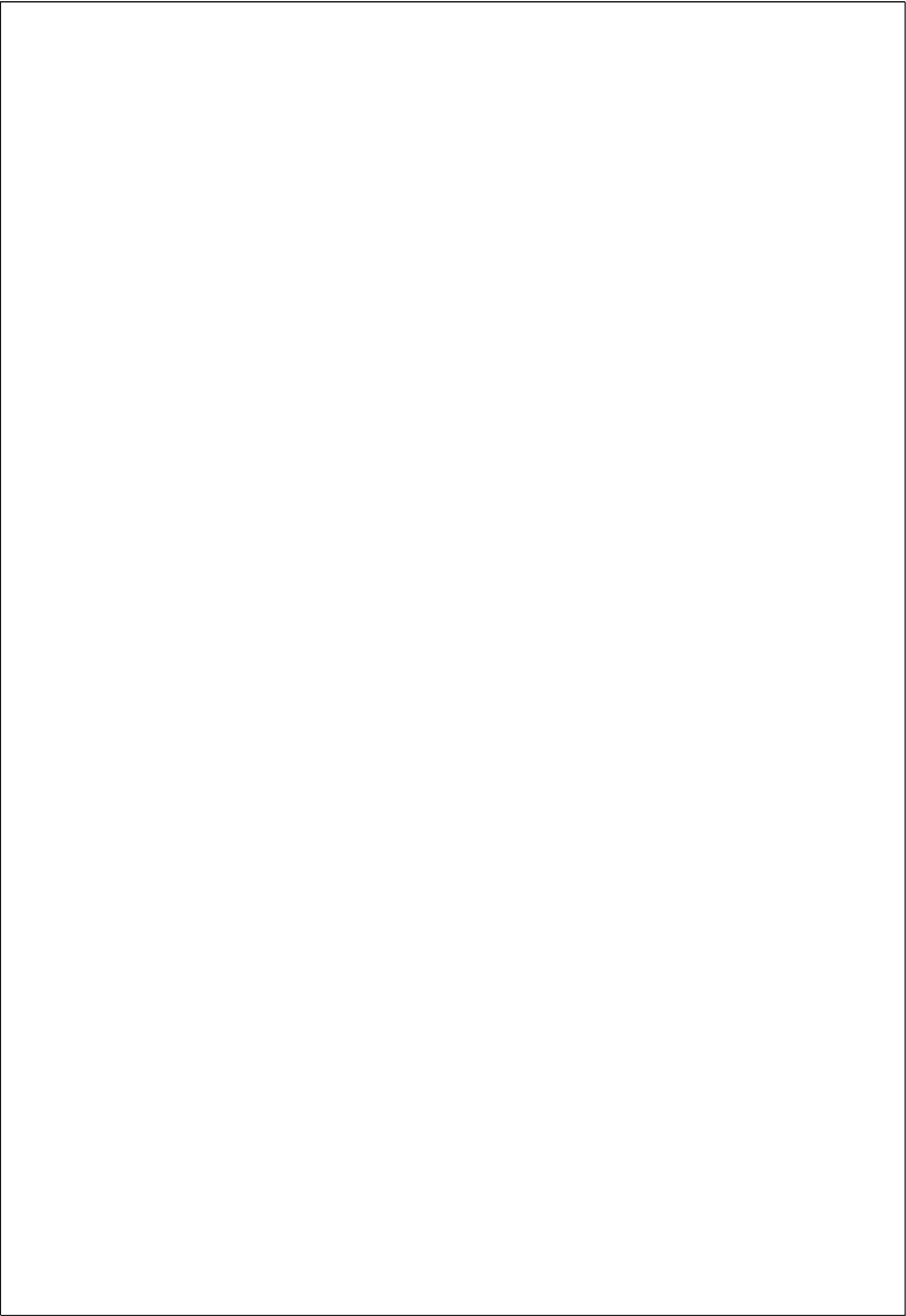


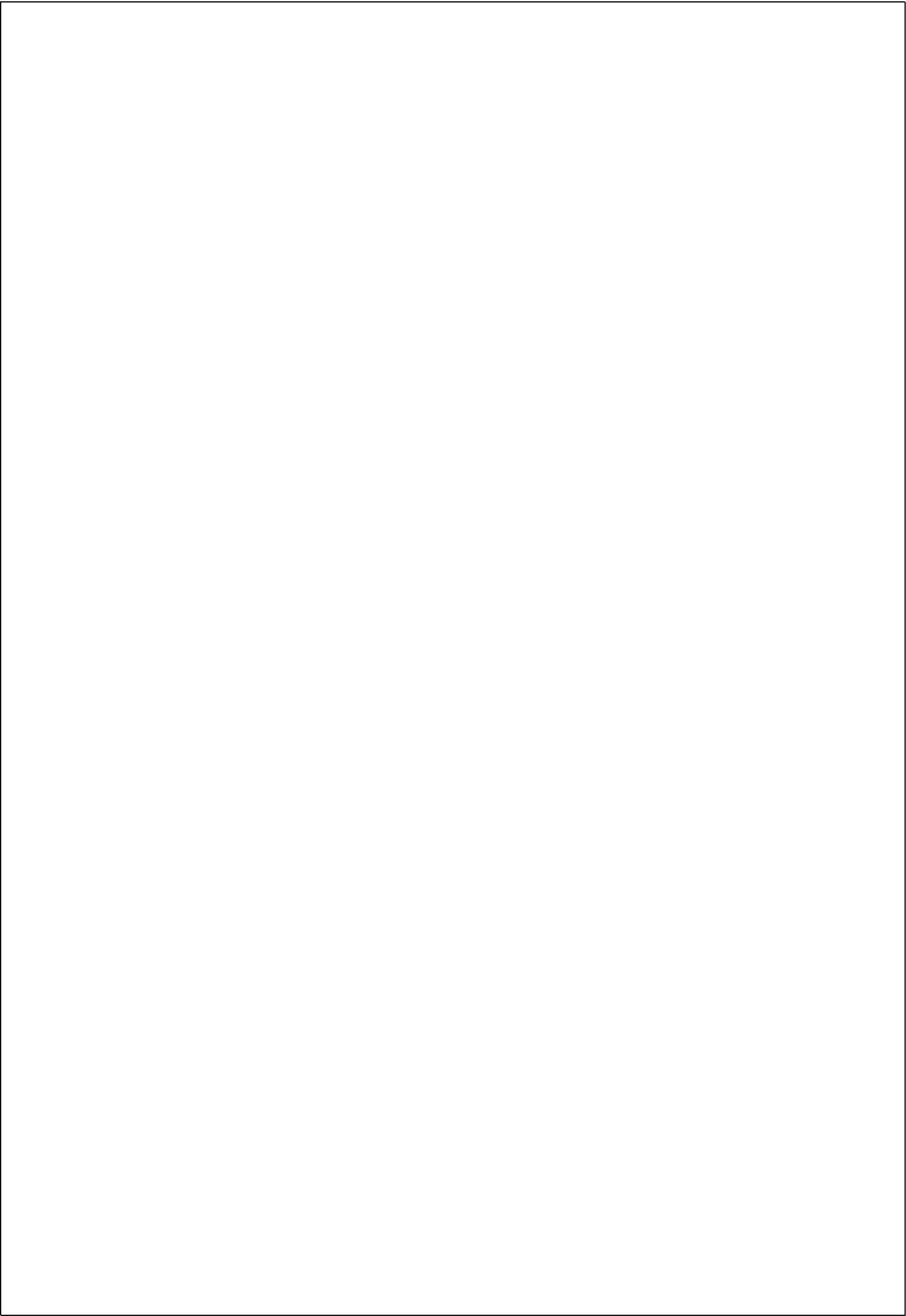


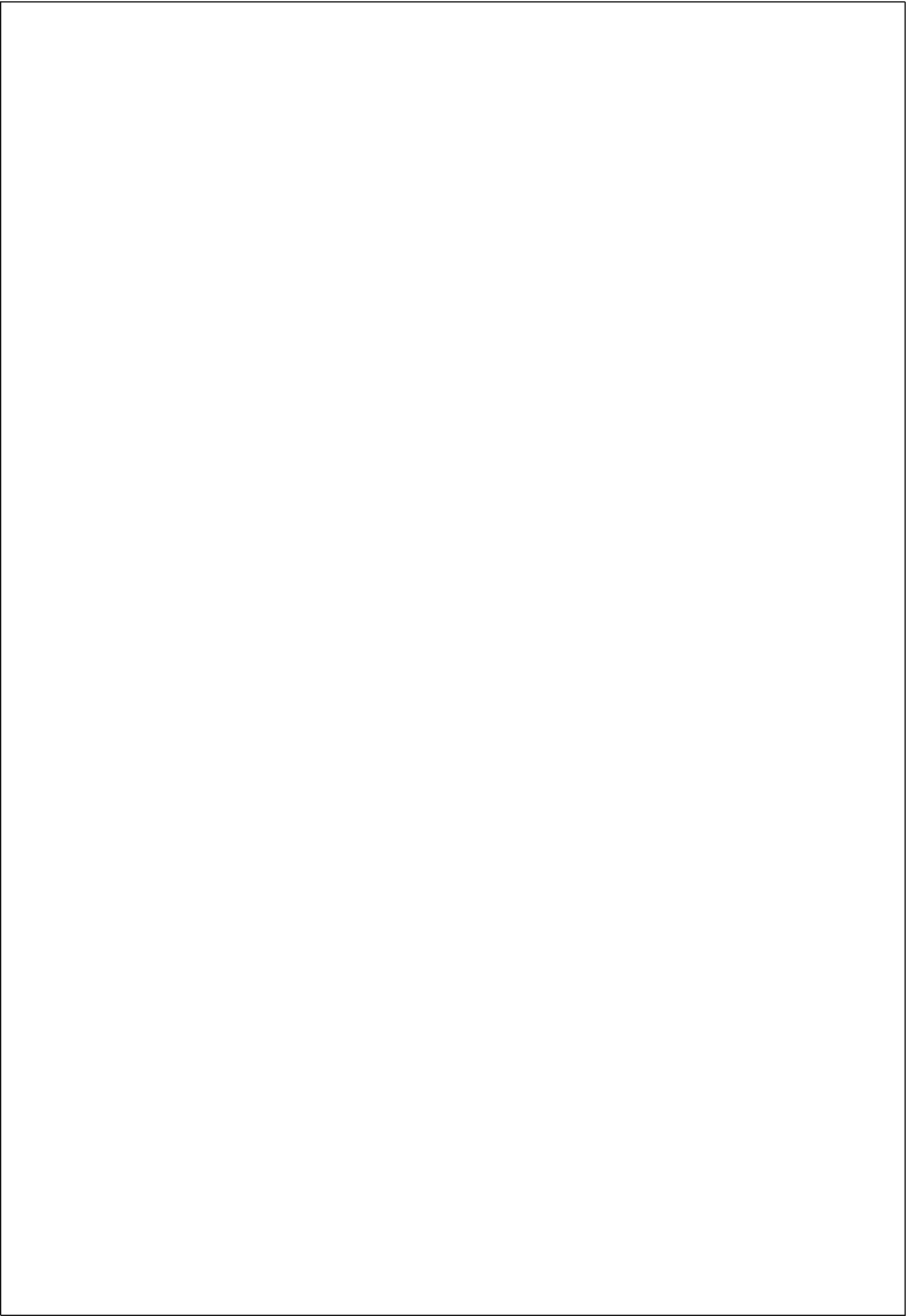


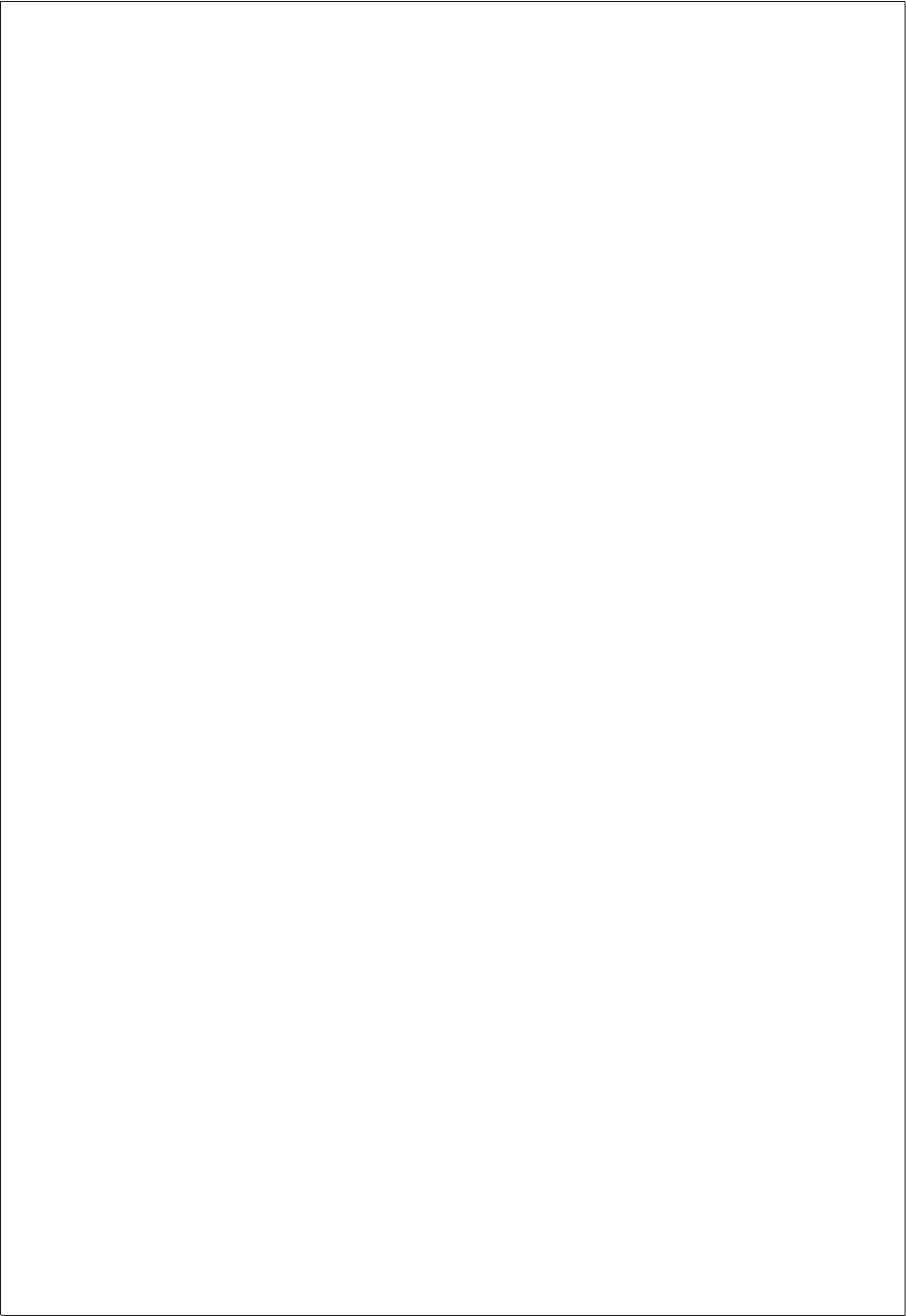


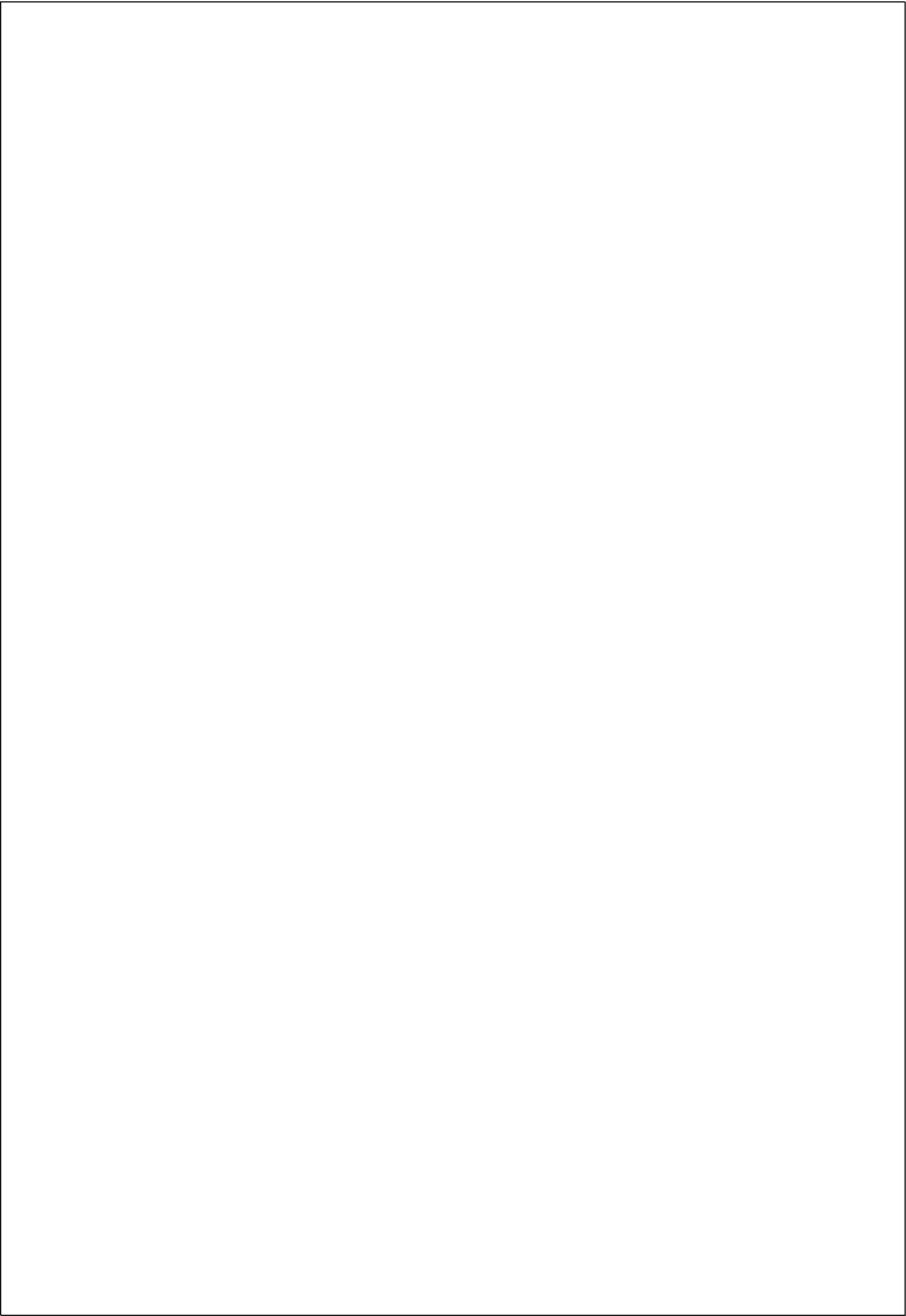




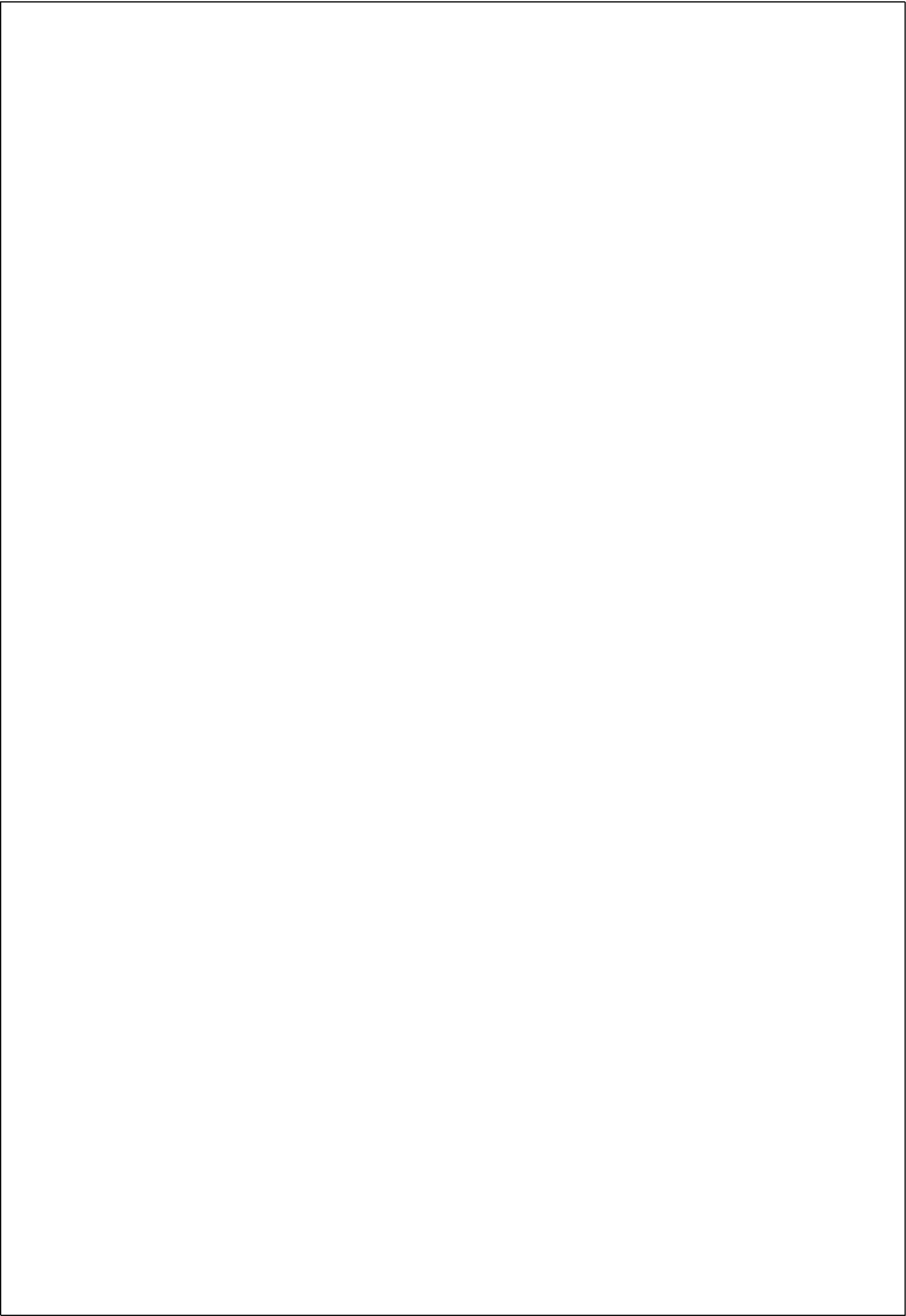


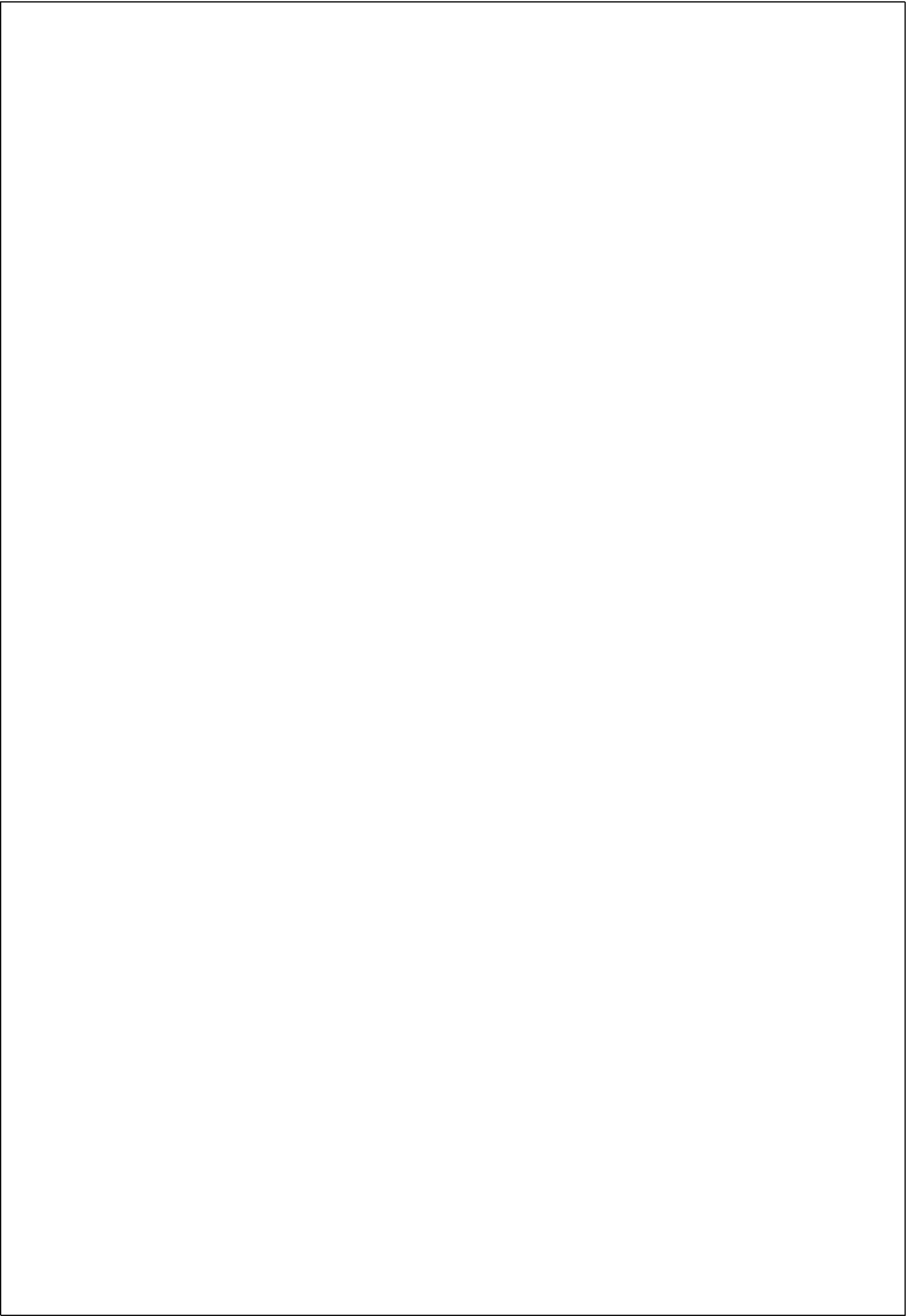


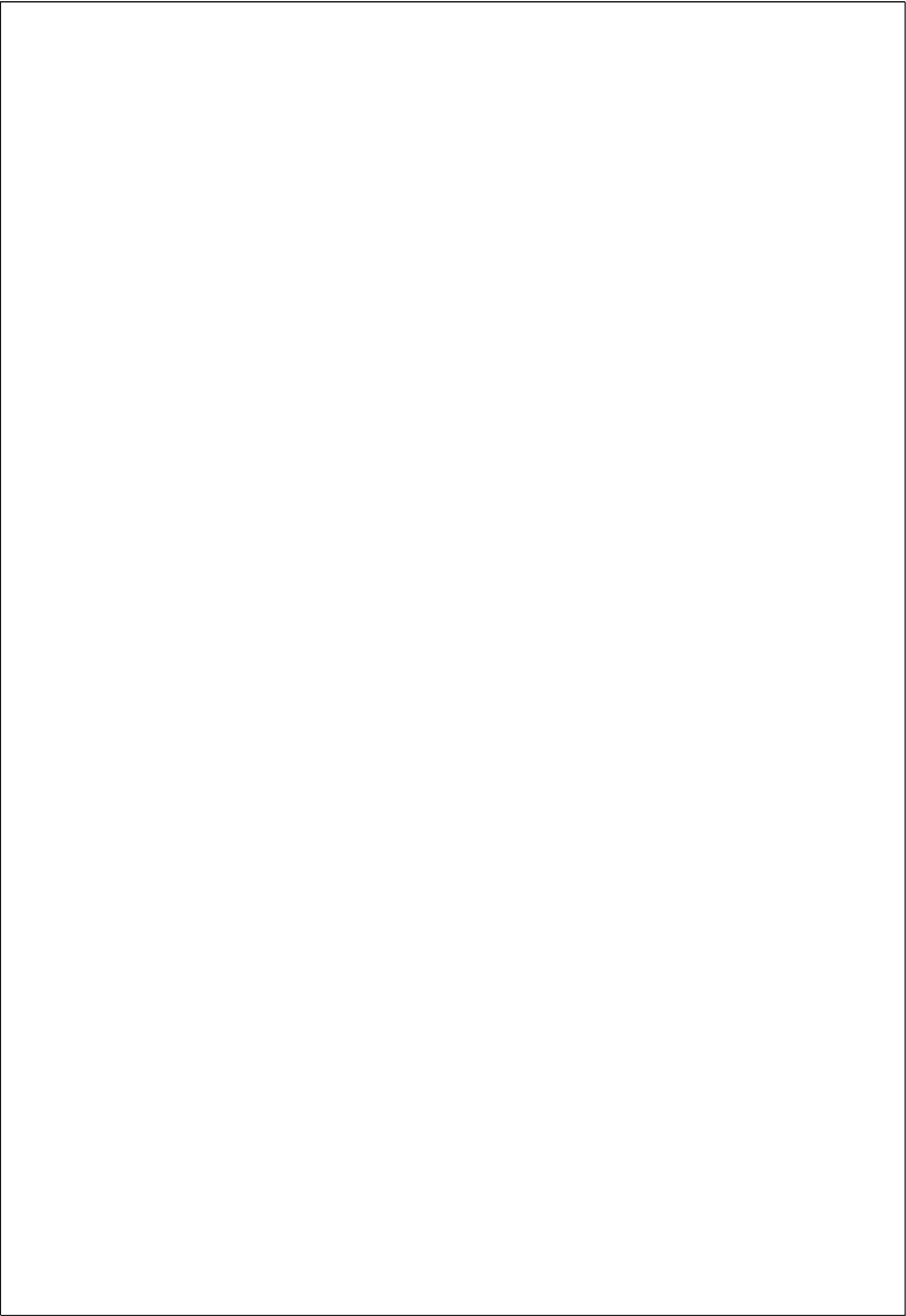


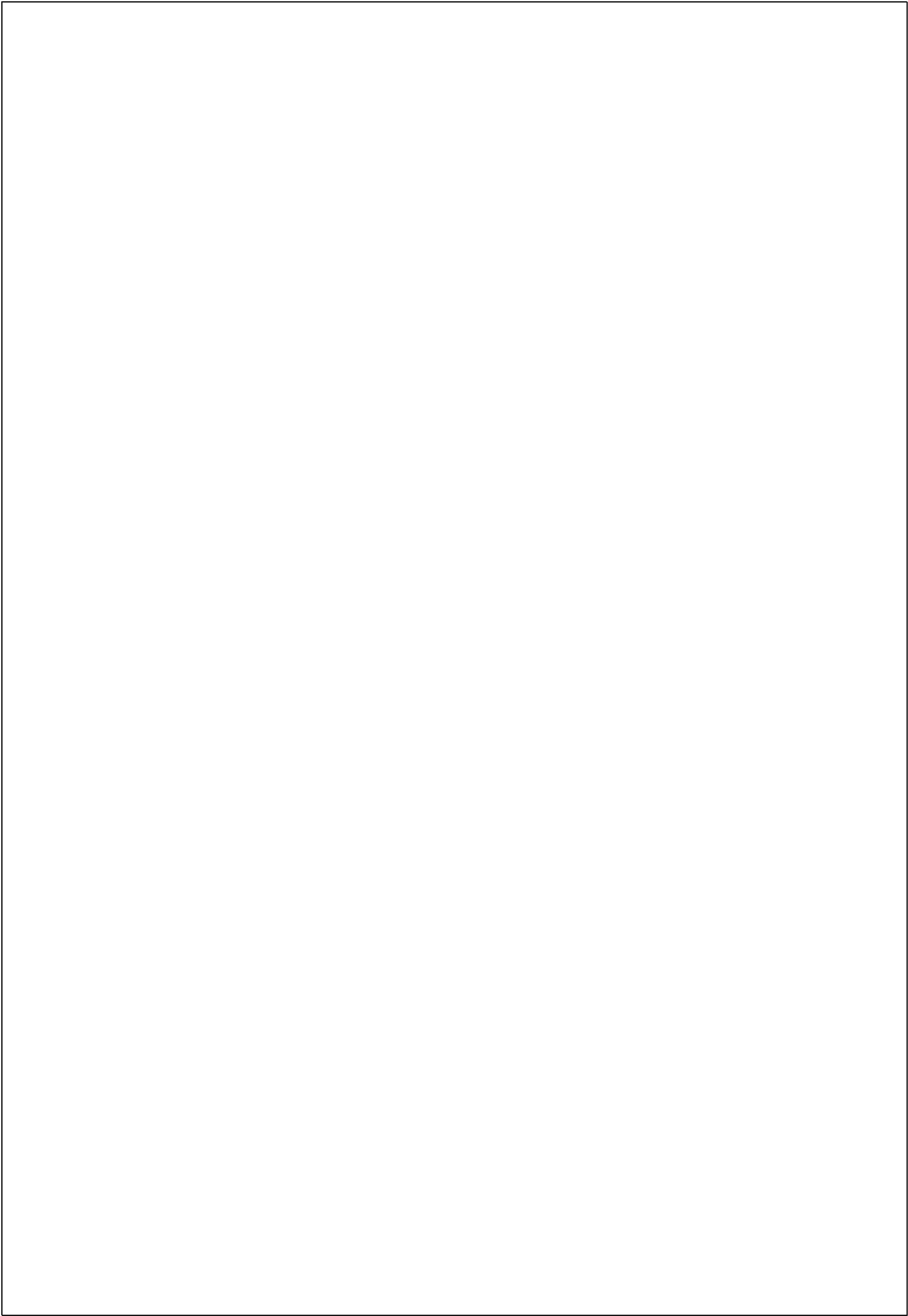


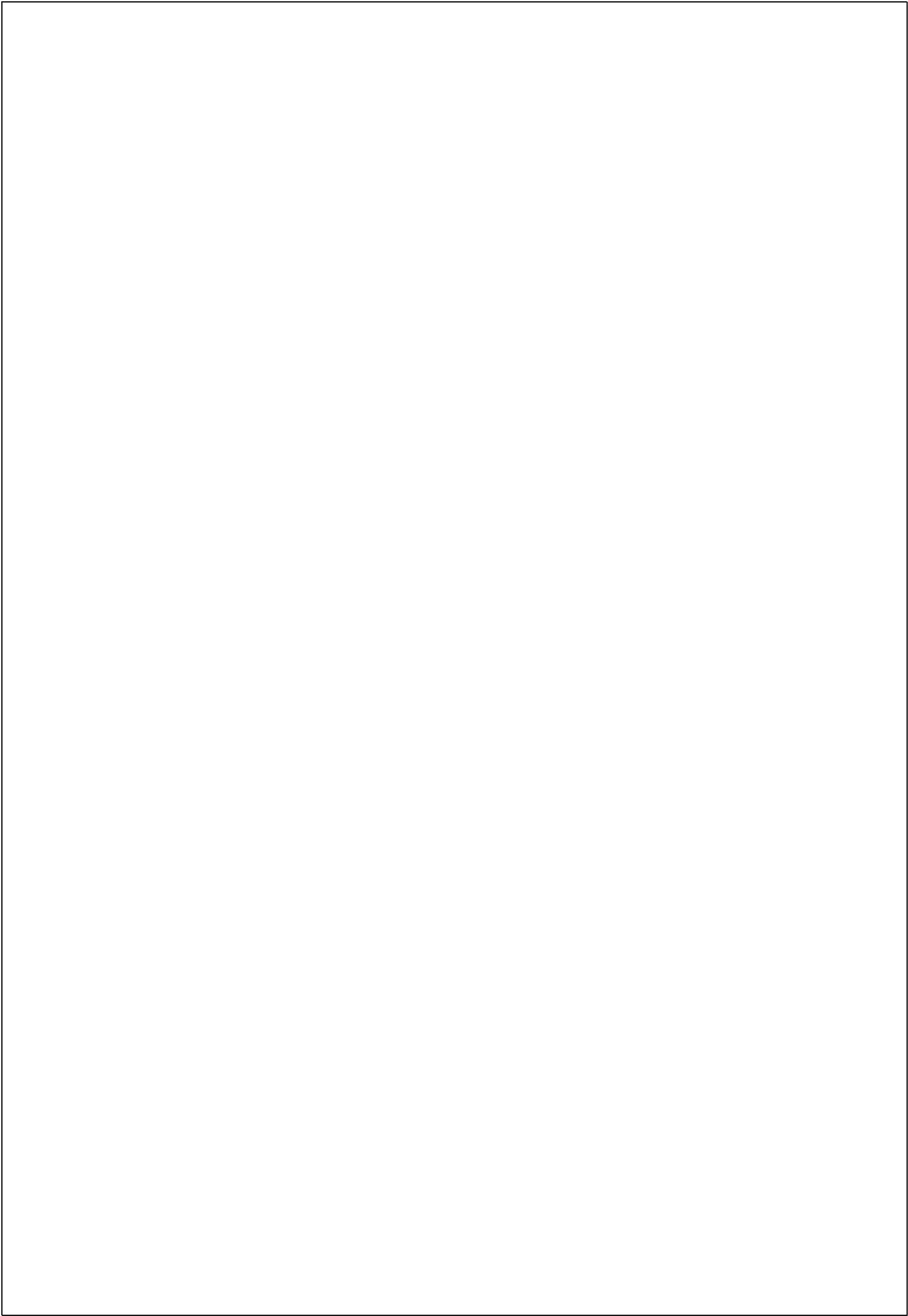
Code:











```
In [84]: import numpy as np
import pandas as pd
import plotly
import plotly.express as px

import cufflinks as cf
import matplotlib.pyplot as plt
import seaborn as sns

import plotly.offline as pyo
from plotly.offline import init_notebook_mode, plot, iplot
```

```
In [85]: pyo.init_notebook_mode(connected=True)
cf.go_offline()
```

```
In [86]: heart
```

```
Out[86]:
```

	Age	Sex	Chest pain type	BP	Cholesterol	FBS over 120	EKG results	Max HR	Exercise angina	ST depression	Slope of ST	Number of vessels fluro	Thallium	Heart Disease
0	70	1	4	130	322	0	2	109	0	2.4	2	3	3	1
1	67	0	3	115	564	0	2	160	0	1.6	2	0	7	0
2	57	1	2	124	261	0	0	141	0	0.3	1	0	7	1
3	64	1	4	128	263	0	0	105	1	0.2	2	1	7	0
4	74	0	2	120	269	0	2	121	1	0.2	1	1	3	0
...
265	52	1	3	172	199	1	0	162	0	0.5	1	0	7	0
266	44	1	2	120	263	0	0	173	0	0.0	1	0	7	0
267	56	0	2	140	294	0	2	153	0	1.3	2	0	3	0
268	57	1	4	140	192	0	0	148	0	0.4	2	0	6	0
269	67	1	4	160	286	0	2	108	1	1.5	2	3	3	1

270 rows × 14 columns

```

In [87]: heart = pd.read_csv(r'C:\Users\91967\Desktop\data\heart.csv')

In [88]: info = ["Age", "1: male, 0: female", "Chest pain type, 1: typical angina, 2: atypical angina, 3: non-anginal pain, 4: asymptomatic", "resting blood pressure", "serum cholestoral in mg/dl", "fasting blood sugar > 120 mg/dl", "resting electrocardiographic results (values 0,1,2)", "maximum heart rate achieved", "exercise induced angina", "oldpeak = ST depression induced by exercise relative to rest", "the slope of the peak exercise ST segment", "number of major vessels (0-3) colored by flourosopy", "thal: 3 = normal; 6 = fixed defect; 7 = reversable defect"]

for i in range(len(info)):
    print(heart.columns[i]+" :\t\t\t"+info[i])

Age: Age
Sex: 1: male, 0: female
Chest pain type: Chest pain type, 1: typical angina, 2: atypical angina, 3: non-anginal pain, 4: asymptomatic
BP: resting blood pressure
Cholesterol: serum cholestoral in mg/dl
FBS over 120: fasting blood sugar > 120 mg/dl
EKG results: resting electrocardiographic results (values 0,1,2)
Max HR: maximum heart rate achieved
Exercise angina: exercise induced angina
ST depression: oldpeak = ST depression induced by exercise relative to rest
Slope of ST: the slope of the peak exercise ST segment
Number of vessels fluoro: number of major vessels (0-3) colored by flourosopy
Thallium: thal: 3 = normal; 6 = fixed defect; 7 = reversable defect

In [89]: heart['Heart Disease']

Out[89]:
0      Presence
1      Absence
2      Presence
3      Absence
4      Absence
...
265     Absence
266     Absence
267     Absence
268     Absence
269     Presence
Name: Heart Disease, Length: 270, dtype: object

In [90]: heart.groupby('Heart Disease').size()

Out[90]:
Heart Disease
Absence     158
Presence    128
dtype: int64

In [91]: heart.groupby('Heart Disease').sum()

Out[91]:
           Age  Sex  Chest pain type  BP  Cholesterol  FBS over 120  EKG results  Max HR  Exercise angina  ST depression  Slope of ST  Number of vessels fluoro  Thallium
Heart Disease
Absence    7906   83           423  19330      36632           23          129    23750           23           93.4          210              43          568
Presence   6791  100           434  16133      30776           17          147    16663           66          190.1          218              138          700

In [92]: heart.shape

Out[92]: (270, 14)

In [93]: heart.describe()

Out[93]:
           Age      Sex  Chest pain type  BP  Cholesterol  FBS over 120  EKG results  Max HR  Exercise angina  ST depression  Slope of ST  Number of vessels fluoro  Thallium
count  270.000000  270.000000    270.000000  270.000000  270.000000  270.000000  270.000000  270.000000  270.000000  270.000000  270.000000  270.000000  270.000000
mean    54.433333  0.677778    3.174074  131.344444  249.059259    0.148148    1.022222  149.677778    0.329630    1.050000  1.585185    0.670370  4.696296
std     9.109067  0.468195    0.950090  17.861608  51.686237    0.355906    0.997891  23.165717    0.470952    1.14521  0.614390    0.943896  1.940659
min     29.000000  0.000000    1.000000  94.000000  126.000000    0.000000    0.000000  71.000000    0.000000    0.000000  1.000000    0.000000  3.000000
25%     48.000000  0.000000    3.000000  120.000000  213.000000    0.000000    0.000000  133.000000    0.000000    0.000000  1.000000    0.000000  3.000000
50%     55.000000  1.000000    3.000000  130.000000  245.000000    0.000000    2.000000  153.500000    0.000000    0.800000  2.000000    0.000000  3.000000
75%     61.000000  1.000000    4.000000  140.000000  280.000000    0.000000    2.000000  166.000000    1.000000    1.60000  2.000000    1.000000  7.000000
max     77.000000  1.000000    4.000000  200.000000  564.000000    1.000000    2.000000  202.000000    1.000000    6.20000  3.000000    3.000000  7.000000

In [94]: heart.info()

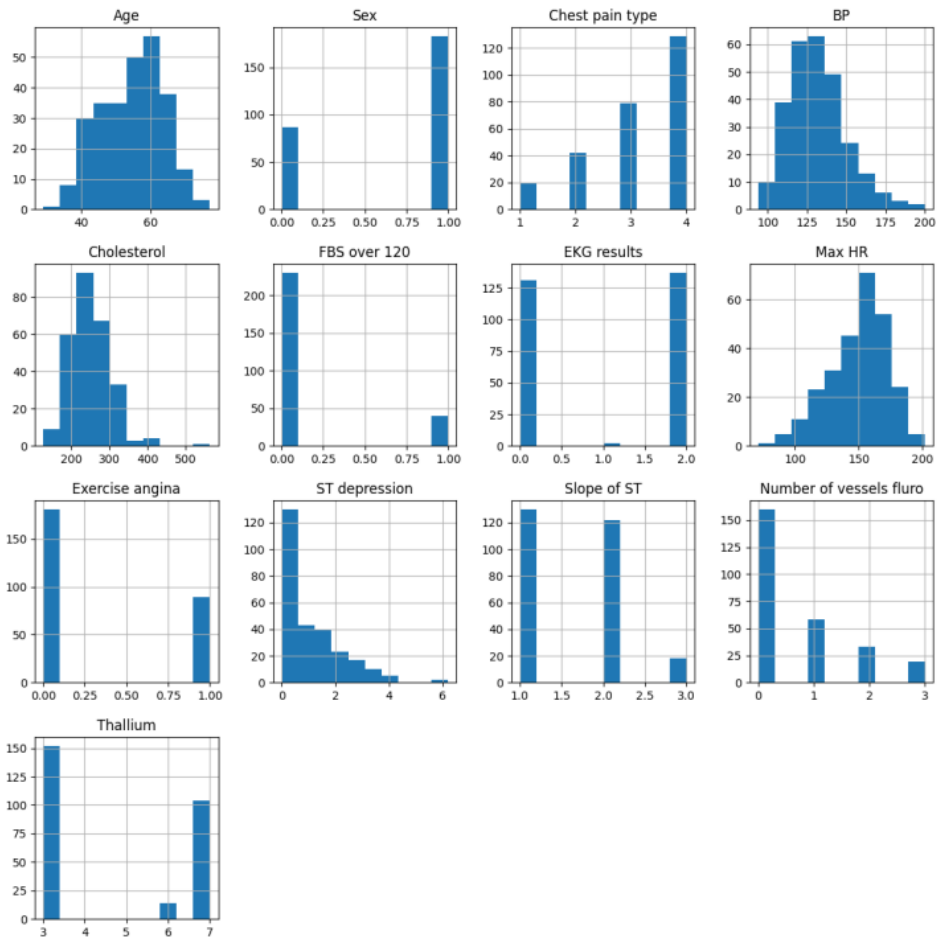
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 270 entries, 0 to 269
Data columns (total 14 columns):
 #   Column              Non-Null Count  Dtype
---  -
 0   Age                 270 non-null    int64
 1   Sex                 270 non-null    int64
 2   Chest pain type     270 non-null    int64
 3   BP                 270 non-null    int64
 4   Cholesterol         270 non-null    int64
 5   FBS over 120       270 non-null    int64
 6   EKG results         270 non-null    int64
 7   Max HR             270 non-null    int64
 8   Exercise angina     270 non-null    int64
 9   ST depression       270 non-null    float64
10   Slope of ST         270 non-null    int64
11   Number of vessels fluoro  270 non-null    int64
12   Thallium            270 non-null    int64
13   Heart Disease       270 non-null    object
dtypes: float64(1), int64(12), object(1)
memory usage: 29.7+ KB

In [95]: heart['Heart Disease'].unique()

Out[95]: array(['Presence', 'Absence'], dtype=object)

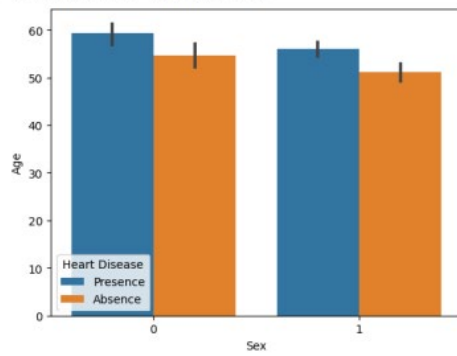
In [96]: heart.hist(figsize=(14,14))
plt.show()

```



```
In [99]: sns.barplot(x=heart['Sex'],y=heart['Age'],hue=heart['Heart Disease'])
```

```
Out[99]: <AxesSubplot: xlabel='Sex', ylabel='Age'>
```



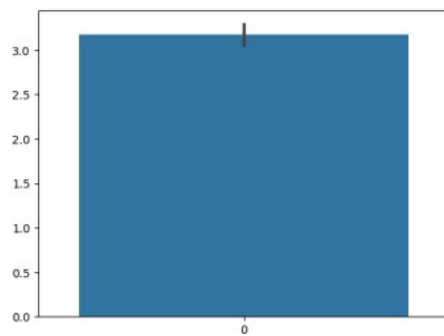
```
In [102]: heart['Heart Disease']=heart['Heart Disease'].replace({'Absence':0,'Presence':1})
```

```
In [103]: heart['Heart Disease']
```

```
Out[103]: 0    1
          1    0
          2    1
          3    0
          4    0
          ..
         265    0
         266    0
         267    0
         268    0
         269    1
         Name: Heart Disease, Length: 270, dtype: int64
```

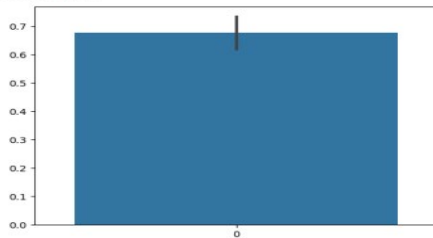
```
In [104]: sns.barplot(heart["Chest pain type"])
```

```
Out[104]: <AxesSubplot: >
```



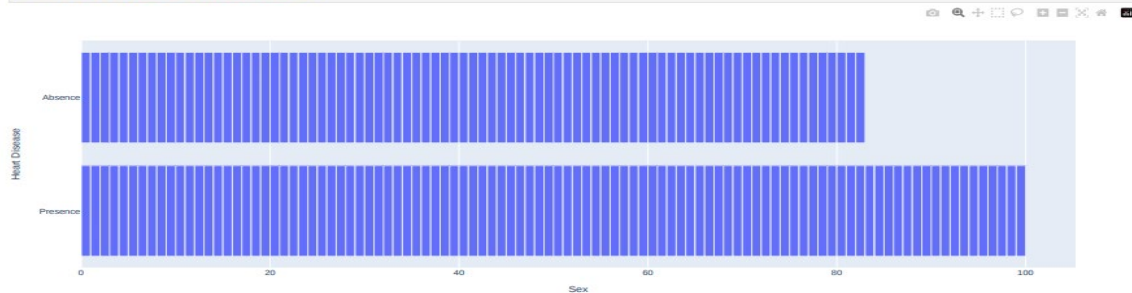
```
In [105]: sns.barplot(heart["Sex"])
```

```
Out[105]: <AxesSubplot: >
```



```
In [ ]:
```

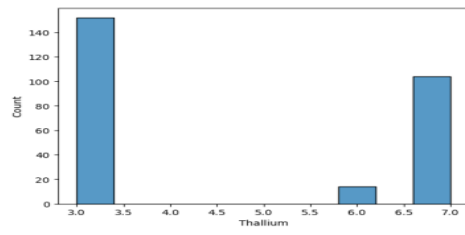
```
In [69]: px.bar(heart,heart['Sex'],heart['Heart Disease'])
```



Sex

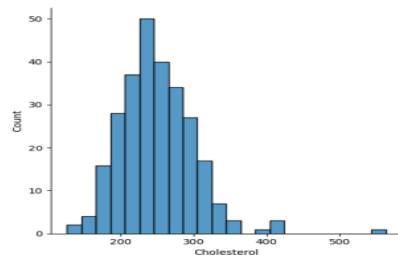
```
In [70]: sns.histplot(heart["Thallium"])
```

```
Out[70]: <AxesSubplot: xlabel='Thallium', ylabel='Count'>
```



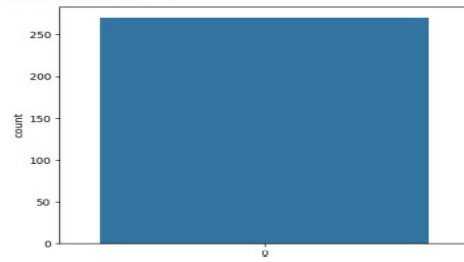
```
In [73]: sns.displot(heart["Cholesterol"])
```

```
Out[73]: <seaborn.axisgrid.FacetGrid at 0x12de4f95698>
```

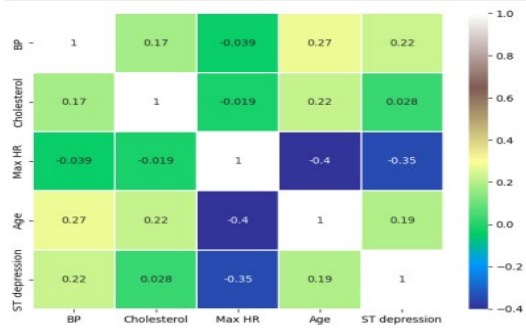


```
In [113]: heart.rename(columns=({'Heart Disease':'target'}),inplace=True)
```

```
In [114]: y = heart["target"]  
sns.countplot(y)  
target_temp = heart.target.value_counts()  
print(target_temp)  
0    150  
1     120  
Name: target, dtype: int64
```

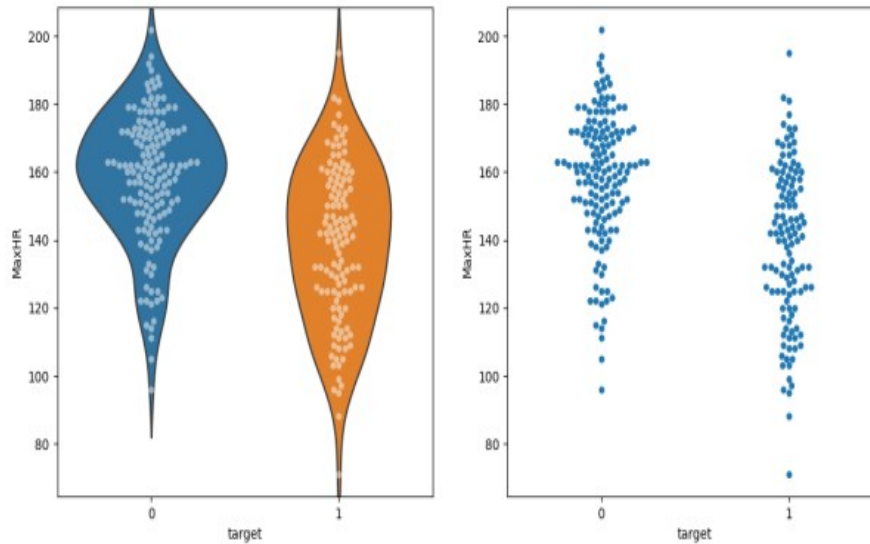


```
In [79]: sns.heatmap(heart[numeric_columns].corr(),annot=True, cmap='terrain', linewidths=0.1)  
fig=plt.gcf()  
fig.set_size_inches(8,6)  
plt.show()
```

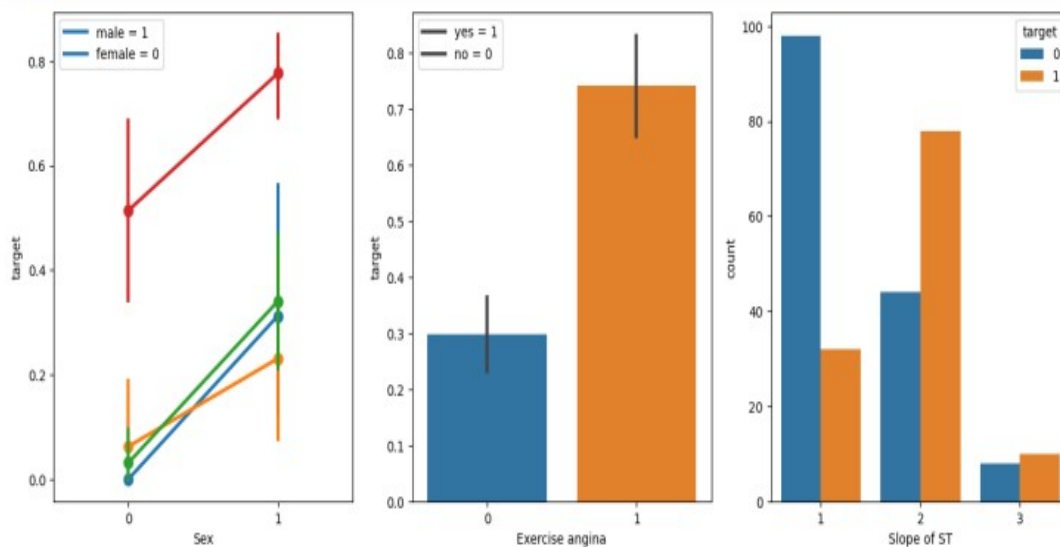


```
In [132]: plt.figure(figsize=(13,6))
plt.subplot(121)
sns.violinplot(x="target", y="MaxHR", data=heart, inner=None)
sns.swarmplot(x="target", y="MaxHR", data=heart, color='w', alpha=0.5)

plt.subplot(122)
sns.swarmplot(x="target", y="MaxHR", data=heart)
plt.show()
```



```
In [133]: # create pairplot and two barplots
plt.figure(figsize=(16,6))
plt.subplot(131)
sns.pointplot(x="Sex", y="target", hue="Chest pain type", data=heart)
plt.legend(['male = 1', 'female = 0'])
plt.subplot(132)
sns.barplot(x="Exercise angina", y="target", data=heart)
plt.legend(['yes = 1', 'no = 0'])
plt.subplot(133)
sns.countplot(x="Slope of ST", hue="target", data=heart)
plt.show()
```



DATA Processing

```
In [134]: heart['target'].value_counts()
```

```
Out[134]: 0    150  
         1    128  
         Name: target, dtype: int64
```

```
In [135]: heart['target'].isnull()
```

```
Out[135]: 0      False  
         1      False  
         2      False  
         3      False  
         4      False  
         ...  
        265     False  
        266     False  
        267     False  
        268     False  
        269     False  
         Name: target, Length: 270, dtype: bool
```

```
In [136]: heart['target'].sum()
```

```
Out[136]: 128
```

```
In [137]: heart['target'].unique()
```

```
Out[137]: array([1, 0], dtype=int64)
```

```
In [138]: heart.isnull().sum()
```

```
Out[138]: Age                0  
         Sex                0  
         Chest pain type     0  
         BP                 0  
         Cholesterol         0  
         FBS over 120        0  
         EKG results         0  
         MaxHR              0  
         Exercise angina     0  
         ST depression       0  
         Slope of ST         0  
         Number of vessels fluoro 0  
         Thallium            0  
         target              0  
         dtype: int64
```

Storing in X and y

```
In [139]: X,y=heart,heart.target
```

```
In [140]: X.drop('target',axis=1,inplace=True)
```

```
In [141]: y
```

```
Out[141]: 0      1  
         1      0  
         2      1  
         3      0  
         4      0  
         ...  
        265     0  
        266     0  
        267     0  
        268     0  
        269     1  
         Name: target, Length: 270, dtype: int64
```

Or `X, y = heart.iloc[:, :-1], heart.iloc[:, -1]`

```
In [142]: X.shape
```

```
Out[142]: (270, 13)
```

```
In [143]: y.shape
```

```
Out[143]: (270,)
```

```
In [144]: from sklearn.cross_validation import train_test_split  
         from sklearn.preprocessing import StandardScaler
```

```
In [145]: sc = StandardScaler()  
         X = sc.fit_transform(X)
```

```

X = accuracy_score(y, y_hat)

In [146]: X_train,X_test,y_train,y_test=train_test_split(X,y,random_state=10,test_size=0.3,shuffle=True)

In [147]: X_test

Out[147]: array([[ -1.47745975,  0.6894997 , -1.23894513, ...,  0.95423434,
                    0.71153494, -0.87579581],
                  [ 1.68718896,  0.6894997 ,  0.79251153, ...,  0.67641928,
                    0.44881111,  0.81210583],
                  [ -0.37761378,  0.6894997 , -0.18355874, ...,  0.67641928,
                    -0.71153494, -0.07270204],
                  ...,
                  [ -0.81755217,  0.6894997 , -0.18355874, ...,  0.95423434,
                    0.71153494, -0.87579581],
                  [ 0.58226299, -1.45832695,  0.87092765, ...,  0.67641928,
                    -0.71153494, -0.87579581],
                  [ -0.78756757,  0.6894997 , -0.18355874, ...,  0.95423434,
                    1.41127648, -0.87579581]])

In [148]: y_test

Out[148]: 111 0
          170 0
          186 0
          185 1
          121 1
          ..
          217 0
          250 1
           69 1
           58 1
          194 0
          Name: target, Length: 81, dtype: int64

In [149]: print ("train_set_x shape: " + str(X_train.shape))
          print ("train_set_y shape: " + str(y_train.shape))
          print ("test_set_x shape: " + str(X_test.shape))
          print ("test_set_y shape: " + str(y_test.shape))

          train_set_x shape: (189, 13)
          train_set_y shape: (189,)
          test_set_x shape: (81, 13)
          test_set_y shape: (81,)

Model

In [150]: # Decision Tree Classifier
          scores_dict = {}

In [151]: Catagory=['No....but i pray you get Heart Disease or at leaseet Corona Virus Soon...','Yes you have Heart Disease....RIP in Advance']

In [155]: from sklearn.tree import DecisionTreeClassifier
          dt=DecisionTreeClassifier()
          dt.fit(X_train,y_train)

Out[155]: DecisionTreeClassifier
          DecisionTreeClassifier()

In [156]: print("Accuracy on training set: {:.3f}".format(dt.score(X_train, y_train)))
          print("Accuracy on test set: {:.3f}".format(dt.score(X_test, y_test)))

          Accuracy on training set: 1.000
          Accuracy on test set: 0.778

In [157]: prediction

Out[157]: array([[0, 0, 0, 1, 1, 1, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0, 0, 1, 0, 1,
                    0, 1, 1, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0, 1, 1, 0, 1, 1, 1, 0, 0,
                    1, 0, 1, 1, 0, 0, 1, 0, 1, 0, 0, 0, 1, 0, 0, 1, 0, 1, 1, 0, 0, 0,
                    1, 0, 1, 0, 0, 1, 0, 1, 1, 0, 1, 0, 0, 0], dtype=int64)

In [158]: X_DT=np.array([[63 ,1 , 3,145,233,1,0,150,0,2,3,0,0,1]])
          X_DT_prediction=dt.predict(X_DT)

In [159]: X_DT_prediction[0]

Out[159]: 1

In [160]: print(Catagory[int(X_DT_prediction[0])])

          Yes you have Heart Disease....RIP in Advance

          Feature Importance in Decision Trees

```

```
In [181]: print("Feature importances:\n{}".format(dt.feature_importances_))

Feature importances:
[0.08148922 0.03287338 0.07028353 0.06957237 0.10489245 0.
 0.02144372 0.00531475 0.03652597 0.07047152 0.          0.10448896
 0.34272413]
```

```
In [182]: def plot_feature_importances_diabetes(model):
    plt.figure(figsize=(8,6))
    n_features = 13
    plt.barh(range(n_features), model.feature_importances_, align='center')
    plt.yticks(np.arange(n_features), X)
    plt.xlabel("Feature importance")
    plt.ylabel("Feature")
    plt.ylim(-1, n_features)
plot_feature_importances_diabetes(dt)
plt.savefig('feature_importance')
```

```
ValueError                                Traceback (most recent call last)
Cell In [182], line 9
      7 plt.ylabel("Feature")
      8 plt.ylim(-1, n_features)
----> 9 plot_feature_importances_diabetes(dt)
     10 plt.savefig('feature_importance')

Cell In [182], line 5, in plot_feature_importances_diabetes(model)
      3 n_features = 13
      4 plt.barh(range(n_features), model.feature_importances_, align='center')
----> 5 plt.yticks(np.arange(n_features), X)
      6 plt.xlabel("Feature importance")
      7 plt.ylabel("Feature")

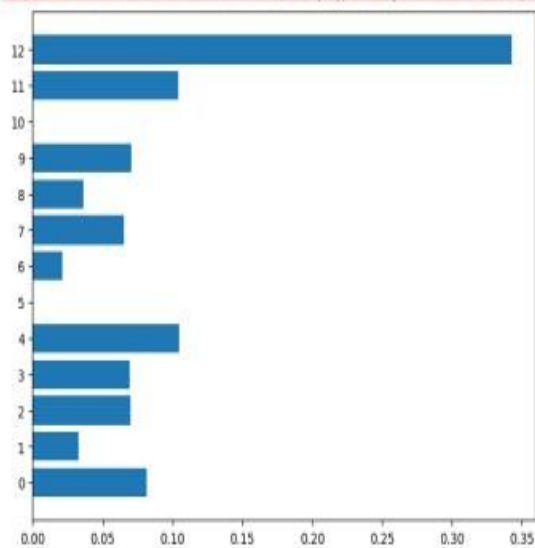
File ~\AppData\Local\Programs\Python\Python310\lib\site-packages\matplotlib\pyplot.py:1887, in yticks(ticks, labels, minor, **kwargs)
    1885     l._internal_update(kwargs)
    1886 else:
-> 1887     labels = ax.set_yticklabels(labels, minor=minor, **kwargs)
    1888     return locs, labels

File ~\AppData\Local\Programs\Python\Python310\lib\site-packages\matplotlib\axes\_base.py:73, in _axis_method_wrapper.__set_name__(<local>_wrapper(self, *args, **kwargs)
     72 def wrapper(self, *args, **kwargs):
--> 73     return get_method(self)(*args, **kwargs)

File ~\AppData\Local\Programs\Python\Python310\lib\site-packages\matplotlib\axis.py:1908, in Axis._set_ticklabels(self, labels, fontdict, minor, **kwargs)
    1906 if fontdict is not None:
    1907     kwargs.update(fontdict)
-> 1908 return self.set_ticklabels(labels, minor=minor, **kwargs)

File ~\AppData\Local\Programs\Python\Python310\lib\site-packages\matplotlib\axis.py:1890, in Axis.set_ticklabels(self, ticklabels, minor, **kwargs)
    1886 if isinstance(locator, mticker.FixedLocator):
    1887     # Passing [] as a list of ticklabels is often used as a way to
    1888     # remove all tick labels, so only error for > 0 ticklabels
    1889     if len(locator.locs) != len(ticklabels) and len(ticklabels) != 0:
-> 1890         raise ValueError(
    1891             "The number of FixedLocator locations"
    1892             f" ({len(locator.locs)}), usually from a call to"
    1893             " set_ticks, does not match"
    1894             f" the number of ticklabels ({len(ticklabels)}).")
    1895     tickd = {loc: lab for loc, lab in zip(locator.locs, ticklabels)}
    1896     func = functools.partial(self._format_with_dict, tickd)

ValueError: The number of FixedLocator locations (13), usually from a call to set_ticks, does not match the number of ticklabels (276).
```



KNN

```
In [4]: from sklearn.neighbors import KNeighborsClassifier
```

G1							
				E		F	
				Date		03-Nov-22	
				Team ID		PNT2022TMD25501	
				Project Name		Project - WEB PHISHING DETECTION	
				Maximum Marks		4 marks	
Test case ID	Feature Type	Component	Test Scenario	Pre-Requisite	Steps To Execute	Test Data	
6 LoginPage_TC_OO	Functional	Home Page	Verify user is able to see the		1.Enter URL and click go		Logi
7 LoginPage_TC_OO	UI	Home Page	Verify the UI elements in		1.Enter URL and click go		App
8 LoginPage_TC_OO	Functional	Home page	Verify user is able to log into		1.click LOGIN From the dashboard	Username:	Use
9 LoginPage_TC_OO	Functional	Login page	Verify user cannot log into		1.click LOGIN From the dashboard	Username: jayasri@gmail	App
10 LoginPage_TC_OO	Functional	Login page	Verify user cannot log into		1.click LOGIN From the dashboard	Username:	App
11 LoginPage_TC_OO	Functional	Login page	Verify user cannot log into		1.click LOGIN From the dashboard	Username: abcd	App
RegisterPage_TC_C	Functional	Register page	verify user cannot submit the empty register form		1.click REGISTER From the dashboard in the homepage 2.Enter NO username/email in Email text box 3.Enter NO in password text box 4.Click on register button	Username: password:	App
12 RegisterPage_TC_C	Functional	Register page	verify user can submit the register form and registration success page is displayed		1.click REGISTER From the dashboard in the homepage 2.Enter valid username/email in Email text box 3.Enter valid password text box 4.Click on register button	Username: jayasri@gmail.com password: sri123	Reg
13							

