**ABSTRACT**

Recently, Internet has become the sole source of information in any domain. Updates from websites are obtained from XML based RSS feeds. A web service is developed to deliver filtered news items from RSS feeds to a mobile client. Each news item is indexed; subsequently, the indexes are used for filtering news items based on different categories. The default location of the user is obtained using geoLocator. For a better understanding the location of the user is pointed by a Pushpin in the map. In this project, a windows phone application is created in order to access filtered news items based on the location. Speech synthesizer API is used for aiding visually impaired people. Sub-categories of news items are also provided for better clarity. Under Favourites category, Top News, Most Read, Most Recent, Opinions, Most Shared, Most commercials News. Under News category, Business, Sports, Education, Technology, Entertainment etc. Apart from the filtering of news the user can also search for the nearby places of interest for a specific radius. Also, the news is converted into text and they can be shared via SMS or can be uploaded as a post in Social networks like Facebook, Twitter.

**TABLE OF CONTENTS**

**CHAPTER NO. TITLE PAGE NO.**

**ABSTRACT i**

**LIST OF TABLES vi**

**LIST OF FIGURES vii**

**LIST OF ABBREVIATIONS ix**

**1 INTRODUCTION 1**

1.1 AIM 1

1.2 PROBLEM STATEMENT 1

1.3 DESCRIPTION 1

**2 LITERATURE SURVEY 3**

2.1 EXISTING SYSTEM 3

2.1.1 Disadvantages 3

2.2 PROPOSED SYSTEM 4

2.2.1 Advantages 4

**3** **SYSTEM ANALYSIS 5**

3.1 FEASIBILITY STUDY 5

3.1.1 Technical Feasibility 5

3.1.2 Economical Feasibility 5

3.1.3 Operational Feasibility 7

**CHAPTER NO. TITLE PAGE NO.**

3.2 HARDWARE USED 7

3.3 SOFTWARE USED 7

**4 DETAILED DESIGN 8**

4.1 SYSTEM ARCHITECTURE 8

4.2 DATA FLOW DIAGRAM 9

4.3 UML DIAGRAMS 12

4.3.1 Use Case Diagram 12

4.3.2 Sequence Diagram 13

4.3.3 Activity Diagram 14

4.3.4 Collaboration Diagram 16

4.3.5 Class Diagram 17

**5 IMPLEMENTATION AND TESTING 18**

5.1 IMPLEMENTATION 18

5.1.1 Geocoding 19

5.1.2 Reverse Geocoding 19

5.1.3 Obtaining News from RSS Feeds 20

**CHAPTER NO. TITLE PAGE NO.**

5.1.4 Mapping News Feed to User 21

Location

5.1.5 Locating Nearby Places of 21

Interest

5.1.6 Sharing the News 21

5.2 TESTING 22

5.2.1 Unit Testing 23

5.2.2 Integration Testing 24

5.2.3 Functional Testing 25

5.2.4 Acceptance Testing 25

5.3 TEST PLAN 26

5.4 TEST ANALYSIS 26

5.5 RESULT 26

**6 CONCLUSION AND FUTURE**

**ENHANCEMENT 27**

6.1 CONCLUSION 27

6.2 FUTURE ENHANCEMENT 27

**CHAPTER NO. TITLE PAGE NO.**

**APPENDIX - A 28**

SAMPLE SOURCE CODE 28

**APPENDIX – B 49**

SAMPLE SCREEN SHOTS 49

**REFERENCES 54**

**LIST OF TABLES**

**CHAPTER NO TITLE PAGE NO.**

5.1 MAIN PAGE TESTING 23

5.2 NEWS PAGE TESTING 23

5.3 CATEGORY PAGE TESTING 24

5.4 INTEGRATION TESTING 24

5.5 FUNCTIONAL TESTING 25

5.6 ACCEPTANCE RESTING 25

**LIST OF FIGURES**

**FIGURE CAPTION PAGE NO.**

**NO.**

3.1 FEASABILITY ANALYSIS DIAGRAM 6

4.1 SYSTEM ARCHITECTURE DIAGRAM 8

4.2 DFD LEVEL 0 9

4.3 DFDLEVEL 1 9

4.4 DFD LEVEL 2 10

4.5 DFD LEVEL 3 10

4.6 DFD LEVEL 4 11

4.7 USE CASE DIAGRAM 12

4.8 SEQUENCE DIAGRAM 14

4.9 ACTIVITY DIAGRAM 15

4.10 COLLOBORATION DIAGRAM 16

4.11 CLASS DIAGRAM 17

5.1 PROCESS OF TESTING 22

**FIGURE CAPTION PAGE NO.**

**NO.**

B1 SPLASH SCREEN IMAGE49

B2 MAIN PAGE 49

B3 MAIN PAGE WITH LOCATION 50

B4 MAIN PAGE APP BAR 50

B5 NEWS PAGE 50

B6 NEWS PAGE APP BAR 50

B7 SHARING NEWS VIA SOCIAL MEDIA 51

B8 SHARING NEWS VIA SMS 51

B9 MANUAL LOCATION PAGE 51

B10 MANUAL LOCATION PAGE WITH LOCATION 51

B11 NEWS FROM MANUAL ALLOCATION 52

B12 CATEGORY PAGE 52

B13 CATEGORY PAGE PANORAMIC VIEW 52

B14 MAP PERMISSION PAGE 52

B15 MAP PAGE 53

B16 MAP PAGE APP BAR 53

**LIST OF ABBREVIATIONS**

XML - EXTENSIBLE MARKUP LANGUAGE

RSS - REALLY SIMPLE SYNDICATION

LINQ - LANGUAGE INTEGRATED QUERY

GPS - GLOBAL POSITIONING SYSTEM

.NET - NETWORK ENABLED TECHONOLOGIES

SDK - SOFTWARE DEVELOPMENT KIT

WPF - WINDOWS PRESENTATION FOUNDATION

XAML - EXTENSIBLE APPLICATION MARKUP

LANGUAGE