

Information Pool System

CSE 3224

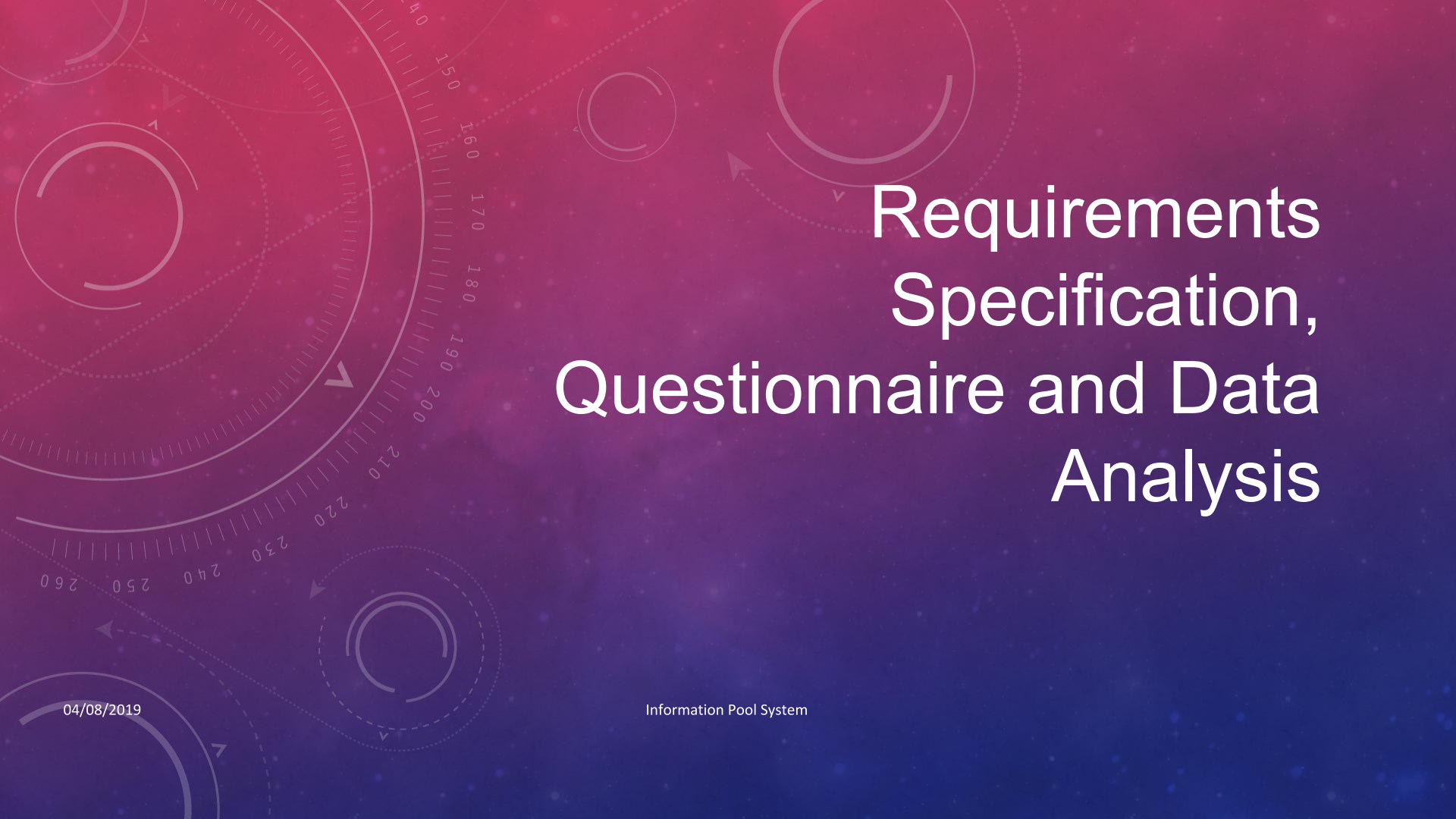
Information System Design
&
Software Engineering Lab

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The background features a dark blue gradient with white circular patterns and a scale. A large circular scale on the left side has markings from 140 to 260 in increments of 10. Several concentric circles and dashed lines with arrows are scattered across the slide, creating a technical or analytical feel.

Requirements Specification, Questionnaire and Data Analysis

04/08/2019

Information Pool System

Introduction to the Project

Information pool is an online site that will provide news and blogs on various topics, alongside ads and events

Requirements Specification

Introduction

Our aim is to analyze local newspapers and online news sites to find out the needs of current users. On the basis of the analysis performed our goal is to develop a requirements specification document that supports all the functional and non-functional requirements with improvements suggested for the current deficiencies.

Types of stakeholders of the Proposed System

The users of our proposed systems belong to 4 levels:

- Level 0: Unregistered users
- Level 1: Registered users
- Level 2: Bloggers and Editors
- Level 3: Administrators

Functionality grouping according to the users

The functionality grouping according to the users is as follows:

- Level 0: Unregistered Users: Can only read articles and blogs, and see ads.
- Level 1: Registered Users: Can comment on articles/blogs, post ads of their own.

Functionality grouping according to the users(cont....)

- Level 2: Bloggers and Editors: Can post blogs of their own, can edit and delete their own blogs.
- Level 3: Administrators: Have overall control over the whole system, can post/delete links & comments from the site.

Functional Requirements

- FR01: Add Users
- FR02: See Links
- FR03: See Blogs
- FR04: Add Links of News
- FR05: Add Blogs
- FR06: Delete Links

Functional Requirements(cont...)

- FR07: Delete Blogs
- FR08: Edit Blogs
- FR09: Comment on blogs
- FR10: Advertisement Posting
- FR11: Advertisement Payment System
- FR12: Events

Non-functional Requirements

NFR01: Performance

- Average load time of the starting page <2 seconds.

NFR02: Security

- Security levels must be maintained
- Only admins can access database

Non-functional Requirements(cont...)

NFR03: Defects-Maintenance

- Post Release defects of the system ≤ 1 critical bug(per month)
- Bug fixing < 5 hours

NFR04: Portability

- Should run on any device as long as any browser is available.

Overall Constraints

- Network and database issues must be maintained properly to prevent propagation of problems across the system.
- User information must be verified to prevent fake users.

Interview and Questionnaire

Sampling Decisions

We have undertaken target-oriented method for sampling. Our target research included Facebook, Direct Email, messages, university, and friends' gatherings.

Sample Design

- 1) Sample Size: The sample size selected for the research is 88.
- 2) Parameters of Interests: Subgroup of people having an experience in digital newspapers, hard copy newspapers and blogs.
- 3) Sampling Technique: We have used Simple Random Sampling.

Data Collection Tool Used

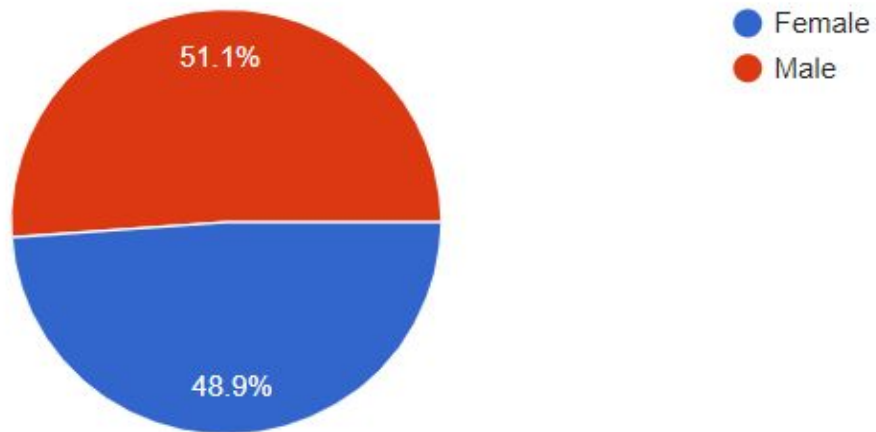
- Questionnaires were used to get the primary data for the empirical research on customer preference on reading news online
- Google Forms were used as the tool for data collection

Data Analysis

Demographic Questions

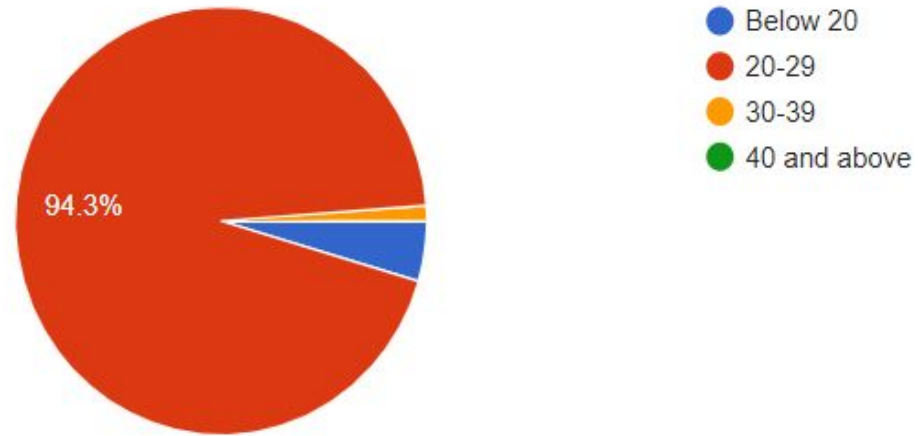
Gender

88 responses



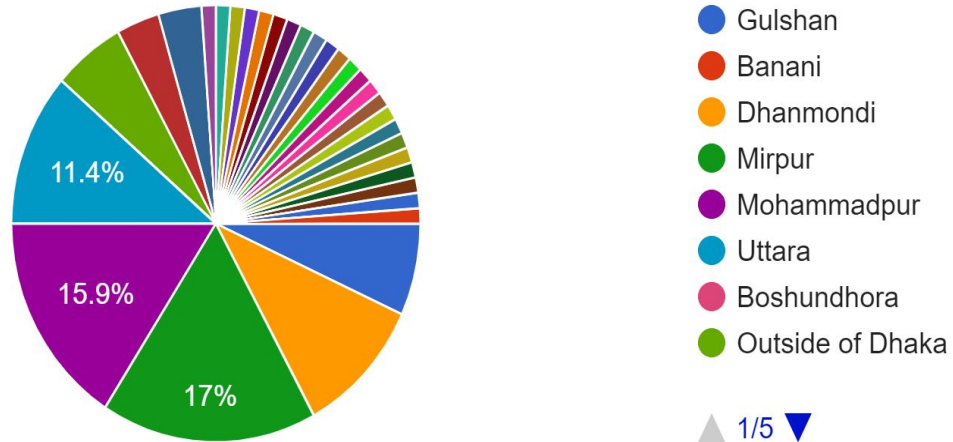
Age-group

88 responses



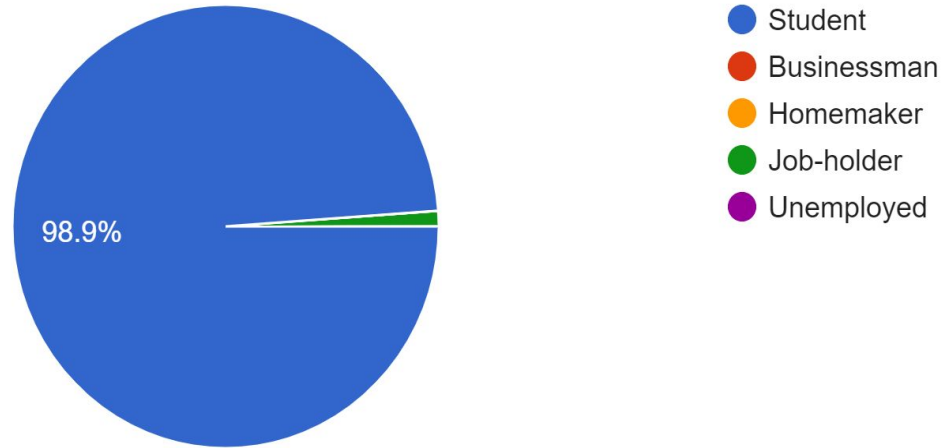
Place of Residence

88 responses



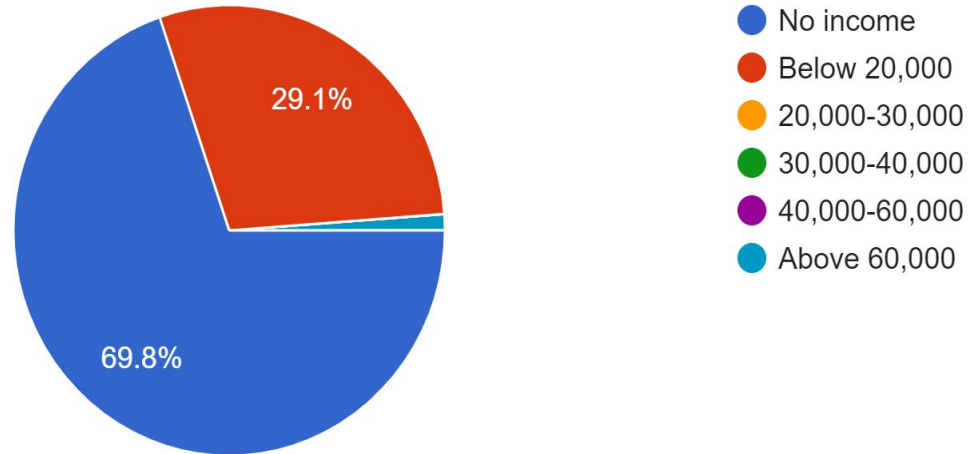
Occupation

88 responses



Monthly Income(per month)

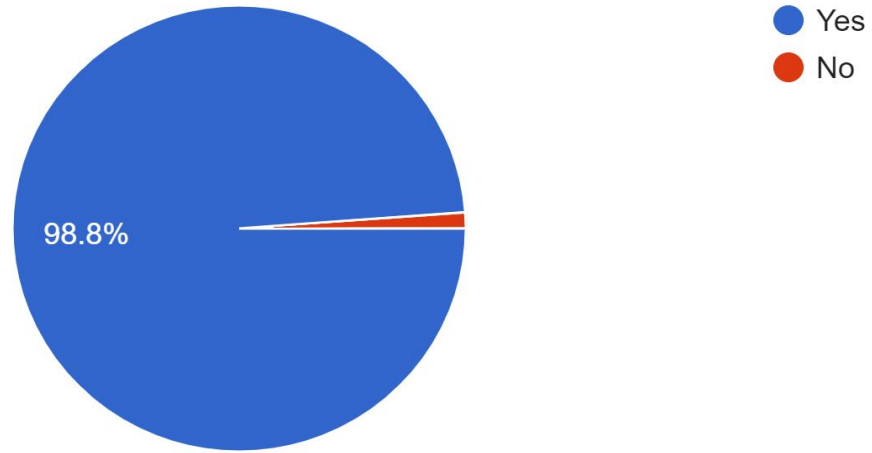
86 responses



Data Analysis: Project Related Questions

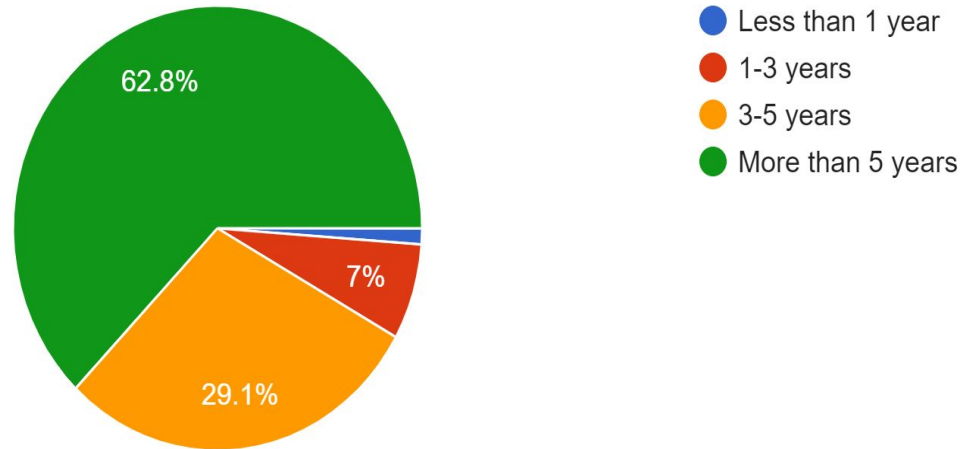
Do you use the internet?

86 responses



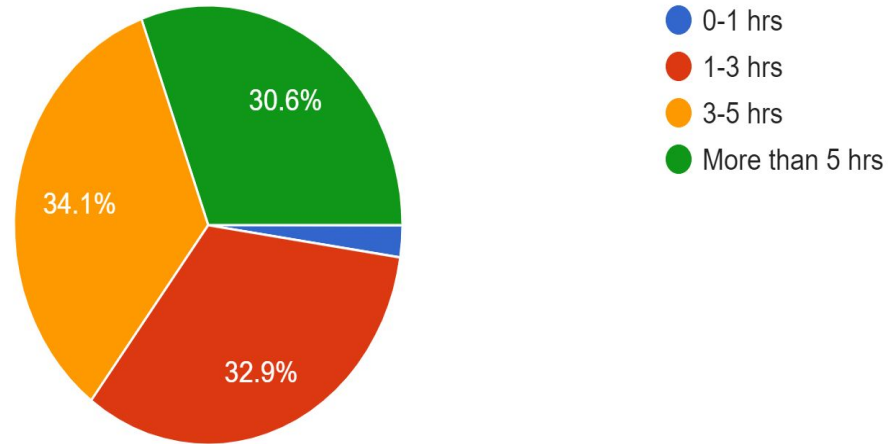
How long have you been using internet?

86 responses



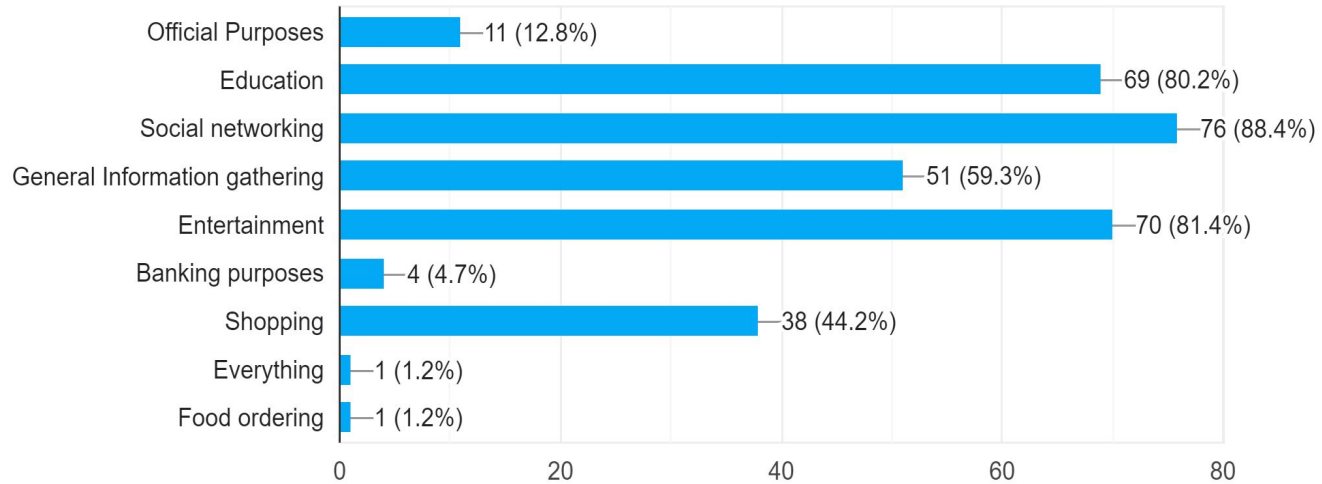
On average, how much time a day do you spend surfing the web?

85 responses



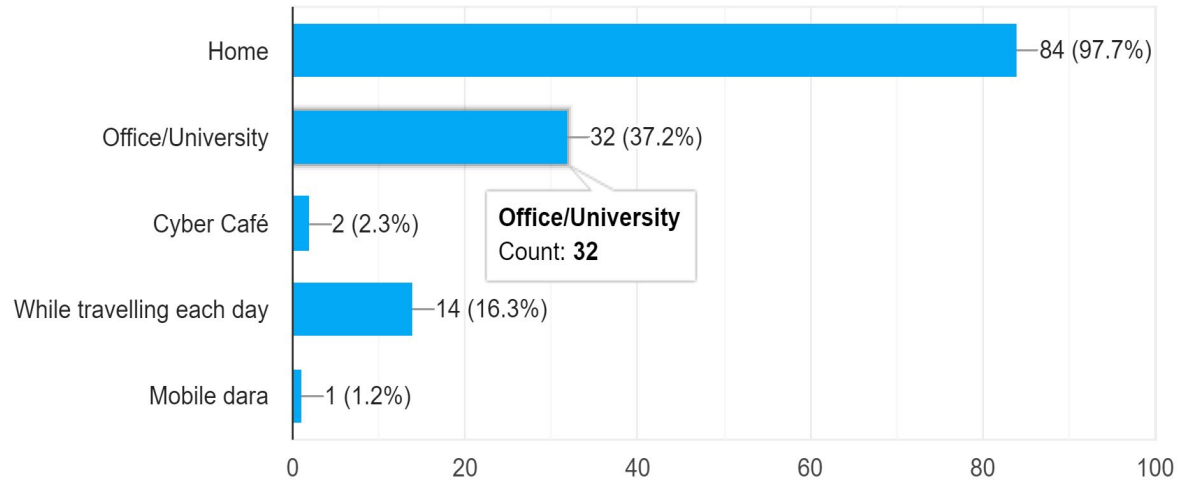
For what activities do you use internet?

86 responses



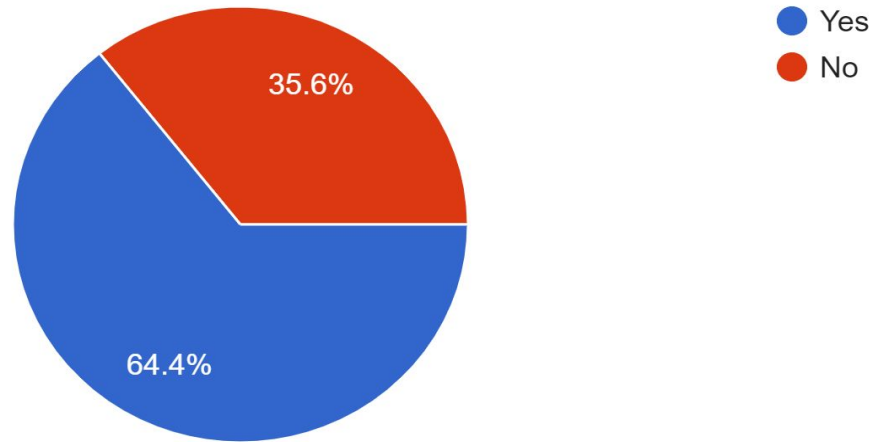
Where do you most often access the internet?

86 responses



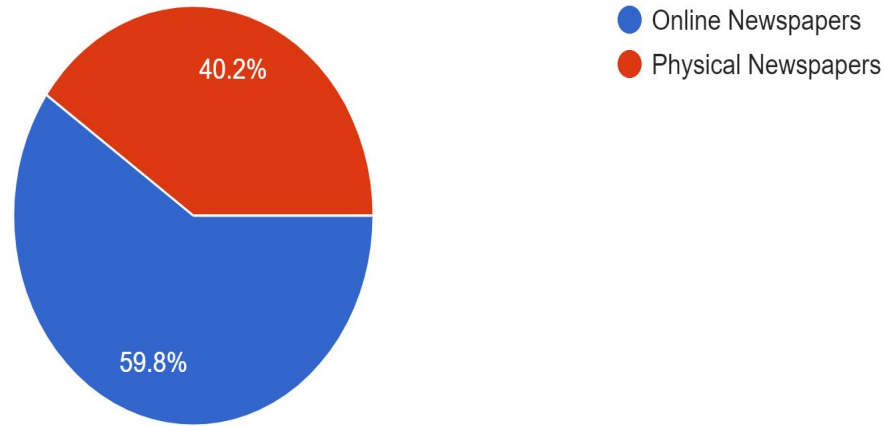
Do you read newspapers?

87 responses



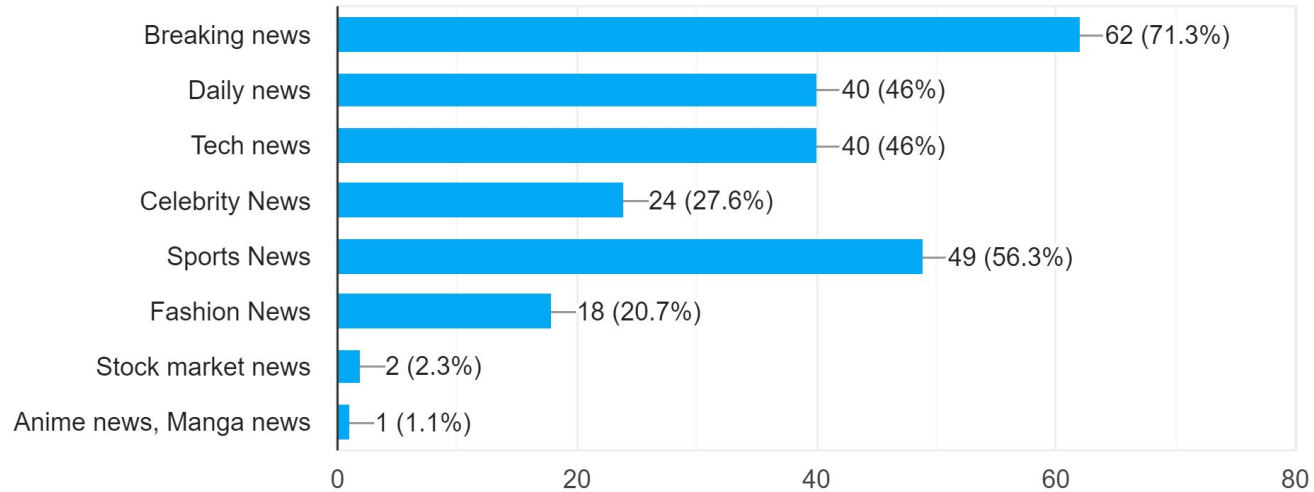
Which one is better for reading news, in your opinion?

87 responses



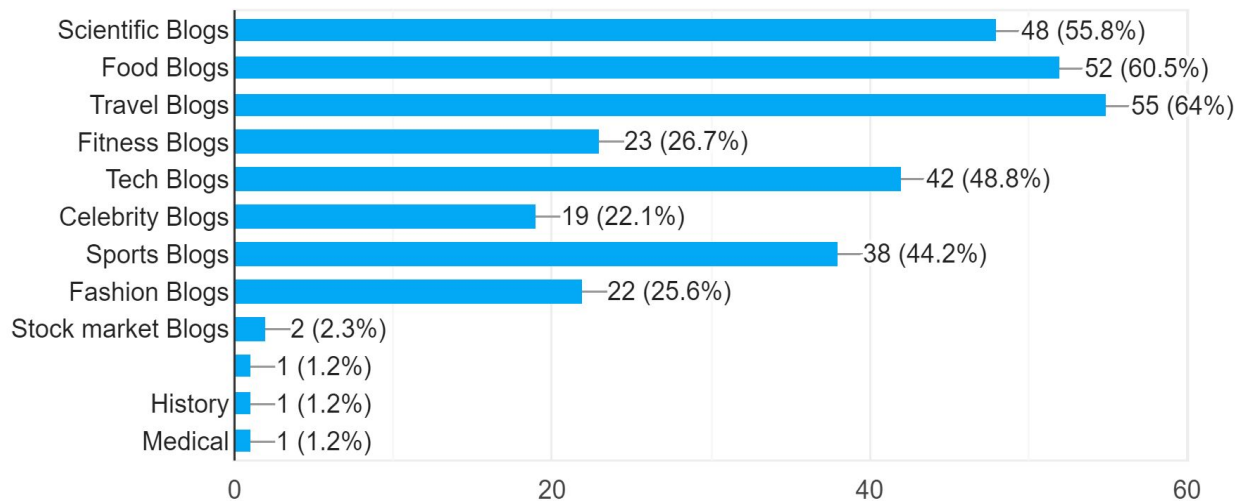
Which type of news do you read online?

87 responses



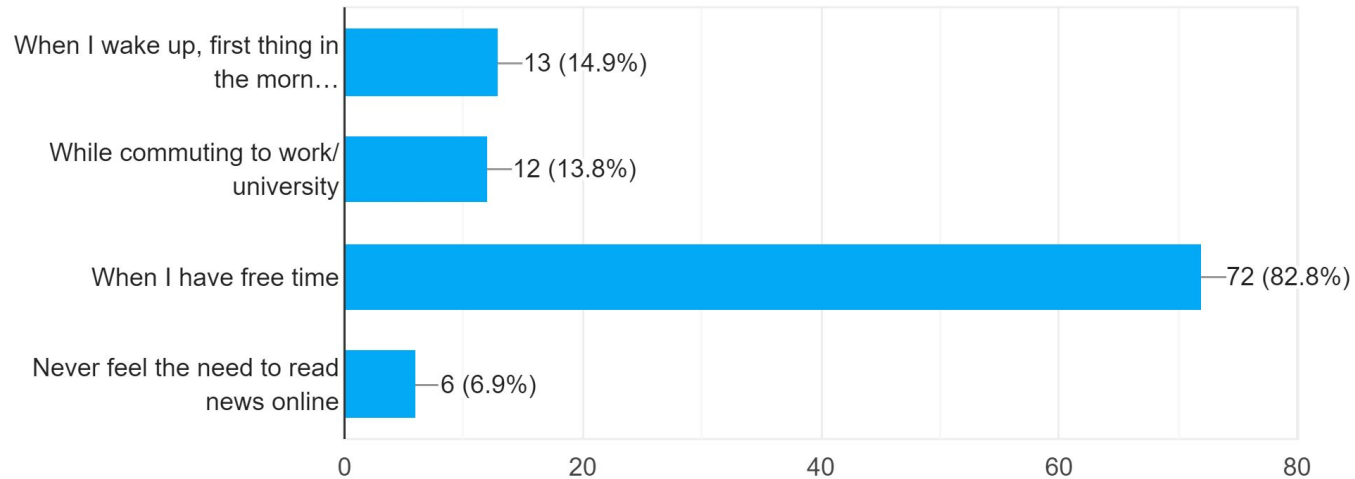
What type of blogs do you prefer?

86 responses

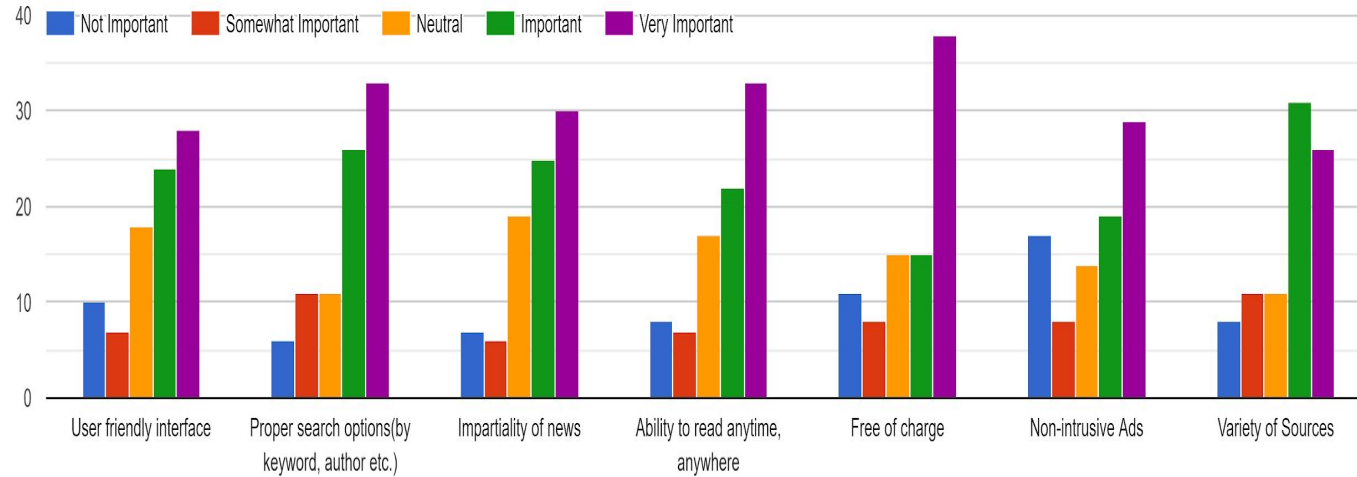


When do you feel the need to read news online?

87 responses

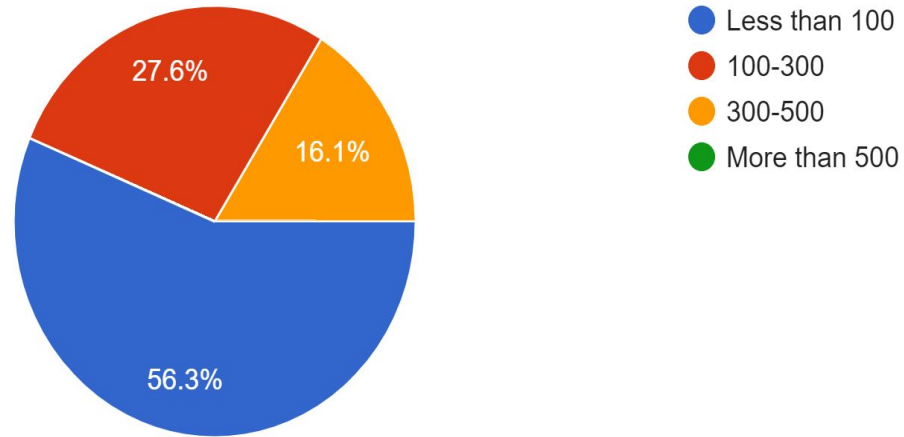


While reading digital newspapers, what affects your satisfaction the most?

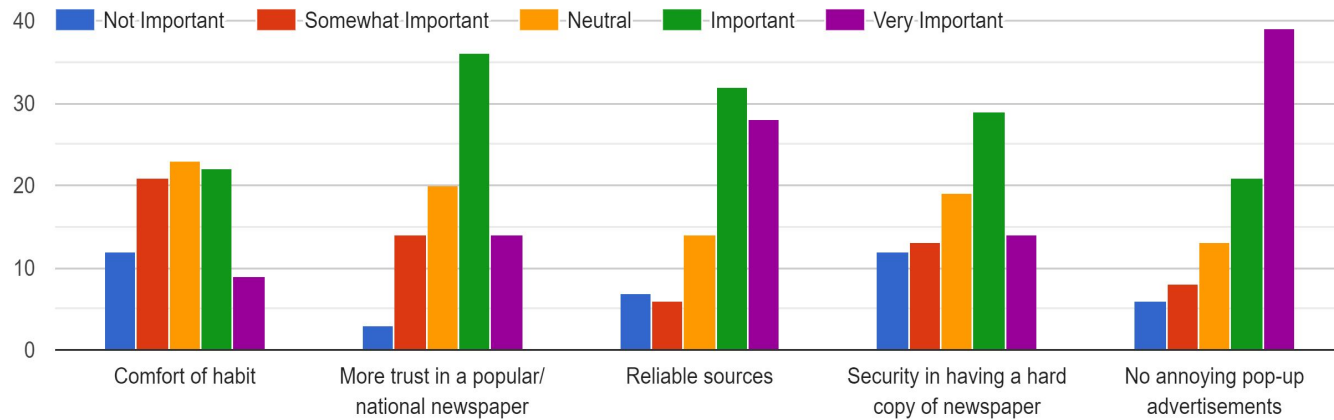


How much money do you spend buying newspapers a month?

87 responses

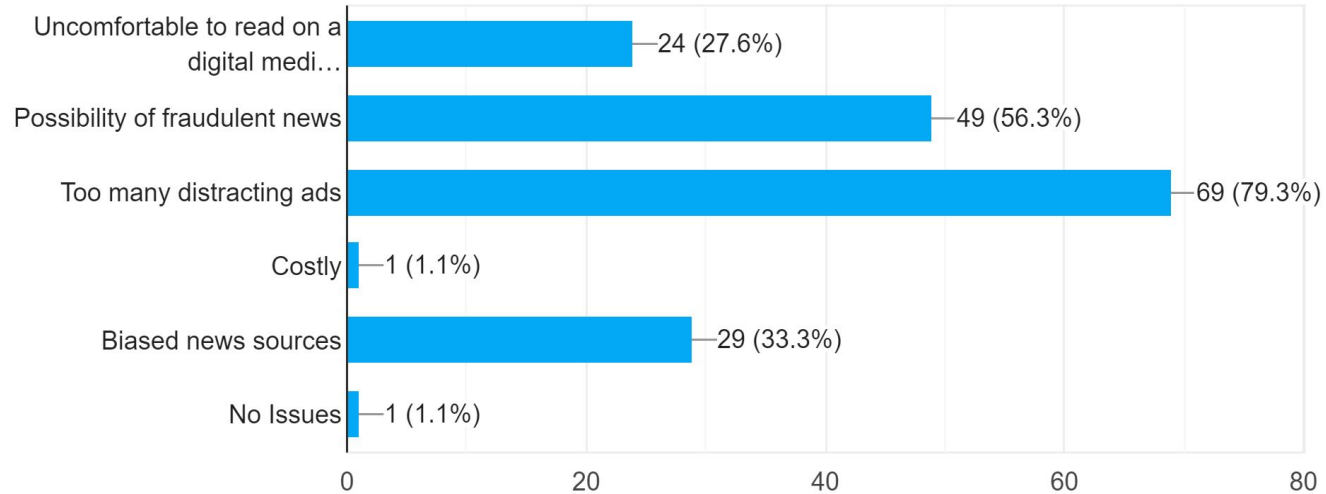


While reading old-fashioned newspapers, what affects your satisfaction the most?



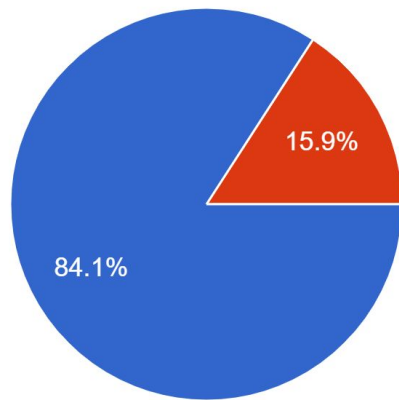
What are your issues regarding online newspapers?

87 responses



How would you prefer to see classifieds ads in a digital newspaper?

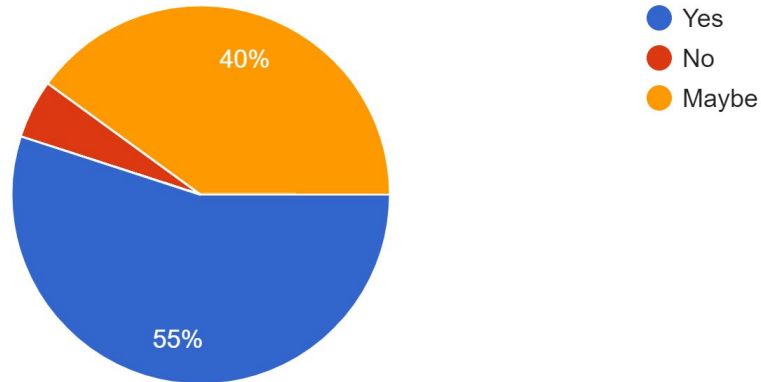
82 responses



- All ads in one place
- Scattered throughout the site

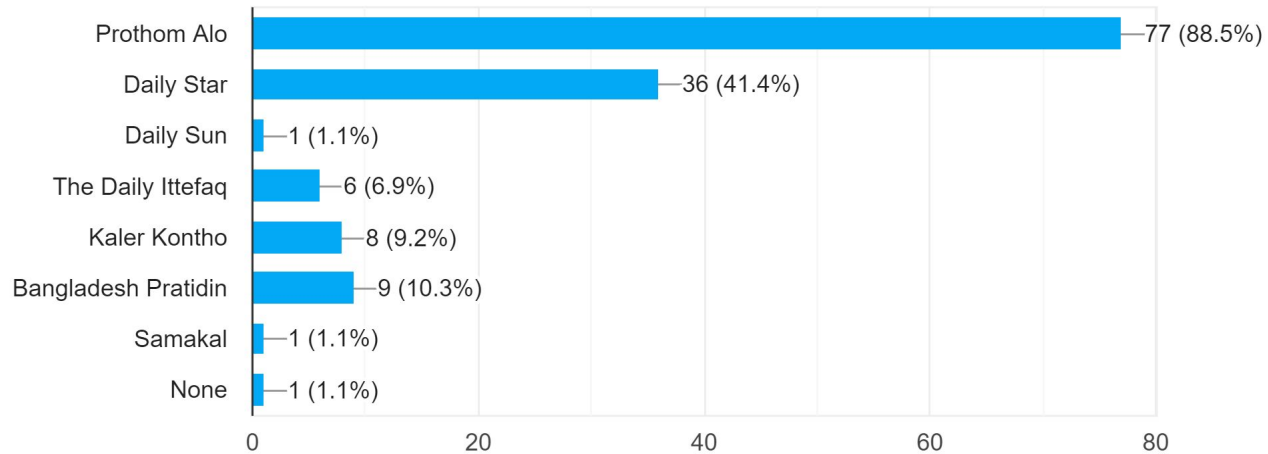
Would you like it if you could know about upcoming events in the same platform as where you are getting all daily news?

80 responses



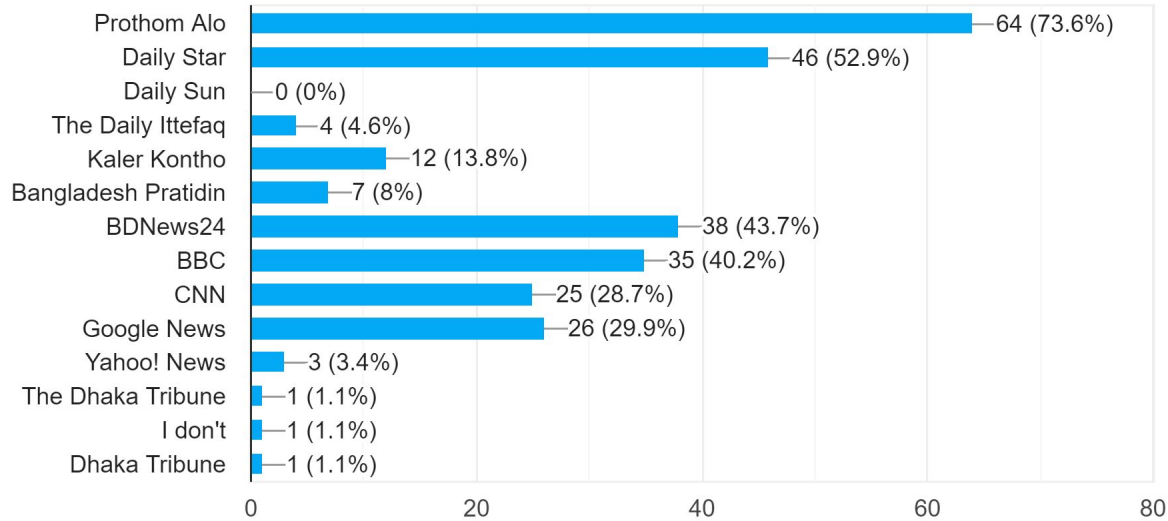
Which newspapers do you read?

87 responses



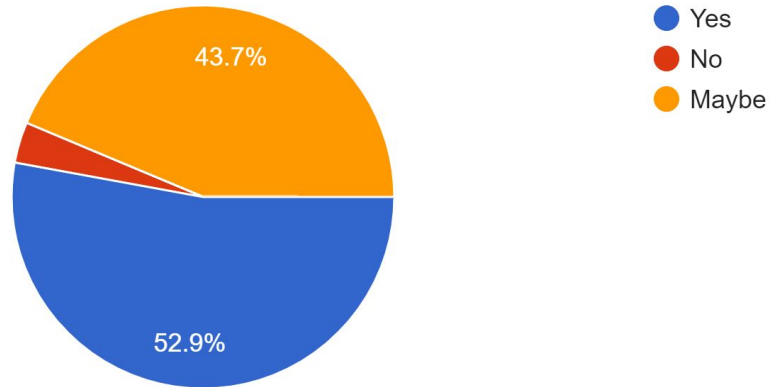
Which digital newspapers do you read?

87 responses



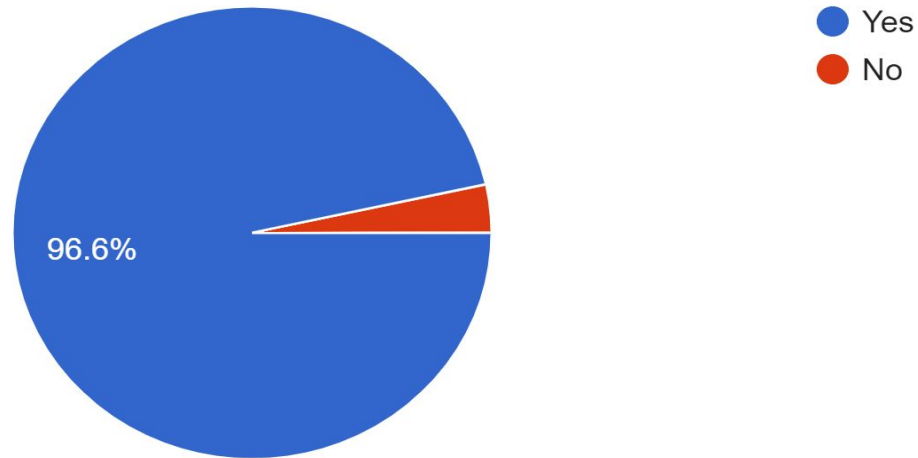
If given an option to read news from various sources online alongside blogs, will you use it?

87 responses



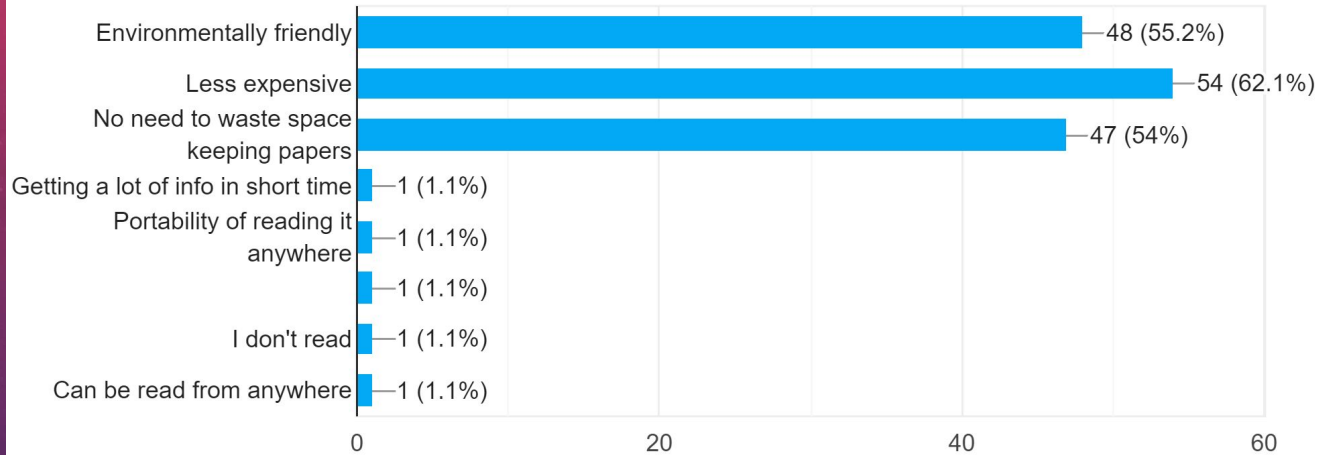
Do you think reading news online is beneficial?

87 responses



If yes, why do you think it is beneficial?

87 responses



Do you have any suggestions for the type of features you would like to see in our system?

A few relevant answers were:

- I want a newspaper which is classic. classy maintenance, classy ads, a good combination of quality and quantity of news.
- Please make it a little less cluttered. Sometimes it feels like there's too much going on. Too many Ads are also a nightmare. Also, is offline reading an option? It would be great if we could save a few articles for offline reading while we're on a commute.
- News related to same topic bundled in one place
- May include literature
- Notifications, pre-request on any topic
- Searching feature

Overall findings of this survey

- 59.8% people aged 20-29 prefer online newspapers over physical newspaper
- 38% people prefer online news portals because they are free
- 73% people would, if given an option to read news from various sources alongside blogs, use it
- 79% people would prefer fewer distracting ads on online news portals and 84% would prefer to see all the ads in one place

Conclusion

From the conducted survey, we found that majority of people are supporters of development of a project like ours. Most of our target audience admitted that given an option to read news alongside blogs, where they could also view events and ads, they would use that system. So using these findings along with their suggestions for an optimum news platform, we can develop a system that will benefit all potential stakeholders.

