



## Smart living through one-click technology: A study on reducing human effort

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### Abstract

In the digital age, Information Technology has significantly transformed human life by introducing automation and intelligent systems. One of the most impactful innovations is one-click technology, which allows users to complete tasks instantly with minimal effort. This research paper examines how one-click systems contribute to reducing human effort in daily activities. The study is based on both primary and secondary data, including a survey conducted among users. The findings reveal that one-click technology improves efficiency, saves time, and enhances user experience. However, it also raises concerns related to data security and overdependence on technology. Overall, the study highlights the growing importance of one-click systems in achieving smart living.

**Keywords:** Information technology, digital age, automation, intelligent systems, one-click technology, human effort reduction

### Introduction

The rapid development of Information Technology has brought major changes in the way people perform daily tasks. Earlier, most activities required manual effort, time, and physical presence. Tasks such as banking, shopping, and communication were complex and time-consuming.

Today, the concept of smart living has emerged, where technology simplifies human life through automation and digital solutions. One-click technology plays a crucial role in this transformation. It enables users to perform tasks instantly by pressing a single button, while complex processes are handled automatically in the background.

This research focuses on understanding how one-click systems reduce human effort and contribute to a smarter and more efficient lifestyle.

### Objectives of The Study

- To analyze the concept of one-click technology
- To examine its role in reducing human effort
- To study user behavior and usage patterns
- To evaluate benefits and challenges of one-click systems
- To understand the impact of automation on smart living

### Scope of The Study

This study focuses on the application of one-click technology in daily life. It includes areas such as online payments, e-commerce, login systems, and automated services.

The research is limited to user experience and does not include technical development or coding aspects. The data is mainly collected from students and general users, which reflects modern digital usage trends.

### Research Methodology

The research is conducted using a combination of:

#### Primary Data

- Collected through an online survey (Google Forms)
- Questions related to usage, experience, effort reduction, and security concerns

#### Secondary Data

- Collected from online articles, journals, and IT resources

### Data Analysis

- Percentage method
- Graphical representation
- Descriptive interpretation

### Concept of One-Click Technology

One-click technology refers to a system that allows users to complete a task with a single action. The system automatically executes multiple processes such as data retrieval, authentication, and transaction handling.

This concept is based on:

- Automation
- Stored user data
- Intelligent system design

### Examples

- One-click online payments (UPI, saved cards)
- Biometric login (fingerprint, face recognition)
- Online shopping with saved details
- Auto-fill forms in web applications

These systems reduce the need for repetitive actions and simplify complex tasks.

### Role of Information Technology In Smart Living

Information Technology enables one-click systems through:

#### Automation

Tasks are completed without continuous human involvement.

#### Data Management

User information is stored securely and reused when needed.

#### System Integration

Different services like payment gateways and databases work together seamlessly.

#### Speed and Efficiency

Processes are completed quickly with high accuracy.

IT plays a key role in transforming traditional living into smart living by reducing effort and increasing convenience.

### Survey analysis and findings

The survey results highlight the following:

- Majority of users belong to the 18–22 age group
- High usage of one-click features among students
- Most users use these systems frequently
- User satisfaction level is generally high
- Many users express concerns about data privacy

The following graphs represent the collected survey data.

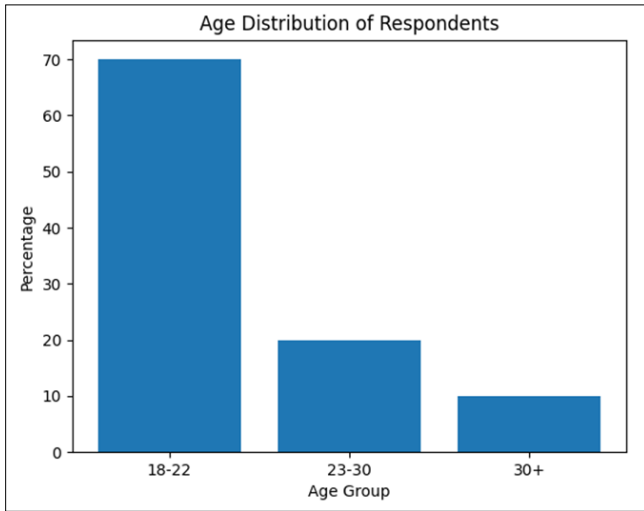


Fig 1: Age Distribution

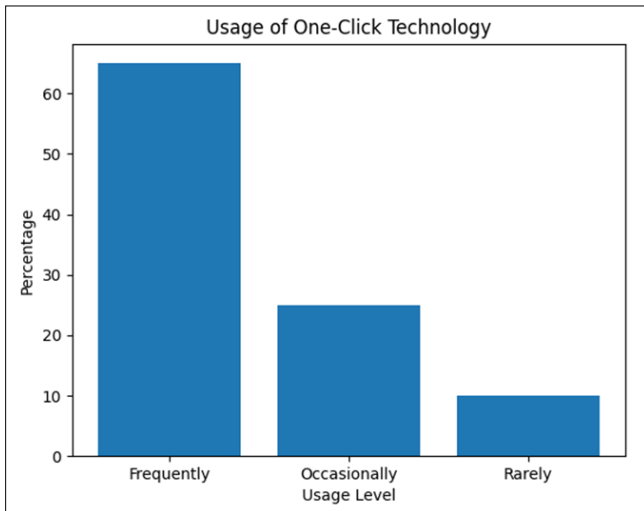


Fig 2: Usage Frequency

These findings indicate that one-click technology is widely accepted but requires better awareness regarding security.

### Advantages of One-Click Technology

#### 1. Time Efficiency

Tasks are completed instantly, saving valuable time.

#### 2. Reduced Human Effort

Eliminates repetitive manual work.

#### 3. Ease of Use

Simple interface suitable for all users.

#### 4. Enhanced User Experience

Faster processes increase satisfaction.

#### 5. Accuracy

Automation reduces chances of human errors.

### limitations and challenges

#### 1. Data Security Risks

Sensitive information may be exposed if systems are not secure.

#### 2. Internet Dependency

Requires stable internet connectivity.

#### 3. Technical Failures

System errors can disrupt processes.

#### 4. Overdependence on Technology

Users may become too reliant on automated systems.

#### 5. Lack of Awareness

Users may not fully understand system risks.

### Future Scope

One-click technology is expected to become more advanced with the integration of:

- Artificial Intelligence (AI)
- Machine Learning (ML)
- Voice-based commands
- Smart devices and IoT

Future systems will become more secure, faster, and more personalized, further reducing human effort.

### Conclusion

The study concludes that one-click technology plays a significant role in achieving smart living by reducing human effort. It simplifies daily tasks, improves efficiency, and enhances user experience.

Although there are some challenges related to security and dependency, the overall impact is highly positive. With proper awareness and technological advancements, one-click systems will continue to improve and become an essential part of modern life.

### References

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