

# Configuration Manual

MSc Research Project  
MSc FinTech

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School of Computing  
National College of Ireland

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**National College of Ireland**  
**MSc Project Submission Sheet**  
**School of Computing**



**Student Name:** Apurva Kokane  
**Student ID:** 23172894  
**Programme:** MSc in FinTech **Year:** 2023-24  
**Module:** Practicum  
**Lecturer:** Faithful Onwuegbuche & Noel Cosgrave  
**Submission Due Date:** 12 August 24  
**Project Title:** The Driving Forces Behind the Shift to Cashless Transactions: Their Impact on the Economic Efficiency, Security, and Resilience  
**Word Count:** 894 **Page Count:** 12

I hereby certify that the information contained in this (my submission) is information pertaining to research I conducted for this project. All information other than my own contribution will be fully referenced and listed in the relevant bibliography section at the rear of the project.

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# Configuration Manual

Apurva Kokane  
Student ID: 2371284

## 1 Introduction

This configuration manual's objective is to provide all the instructions and details needed to develop the research project titled **"The driving force behind the shift to Cashless Transactions: Their Impact on Economic Efficiency, Security, and Resilience."** To create and assess the data in a similar as well as duplicate the steps to achieve the results to prove the validity.

## 2 Hardware Requirements

The following setups were used to carry out the project:

### 2.1 Local Machine/ Laptop

MacBook Pro 13-inch, 2019, macOS Sonoma  
Processor: 1.4 GHz Quad-Core Intel Core i5  
Graphics : Intel Iris Plus Graphics 645, 1536 MB  
Memory: 8 GB LPDDR3, 2133 MHz  
Display: 2560 x 1600 Retina

#### Hardware Overview:

Model Name:	MacBook Pro
Model Identifier:	MacBookPro15,4
Processor Name:	Quad-Core Intel Core i5
Processor Speed:	1.4 GHz
Number of Processors:	1
Total Number of Cores:	4
L2 Cache (per Core):	256 KB
L3 Cache:	6 MB
Hyper-Threading Technology:	Enabled
Memory:	8 GB
System Firmware Version:	2022.100.22.0.0 (iBridge: 21.16.5077.0.0,0)
OS Loader Version:	580~2215
Serial Number (system):	C02Z8APGL40Y
Hardware UUID:	7CD84621-4276-5270-9571-35F91A74604E
Provisioning UDID:	7CD84621-4276-5270-9571-35F91A74604E
Activation Lock Status:	Enabled

Figure 1: Hardware Overview of Local Machine.

### 3 Data Collection Using Google Forms

Survey on the Impact and Adoption of Cashless Transactions in India

Form description

What is your age? \*

- ☐ Under 18
- ☐ 18 to 24 years
- ☐ 25-34 years
- ☐ 35 to 44 years
- ☐ 45 to 54 years
- ☐ 55 to 64 years
- ☐ 65 years above

Figure 2. Google Forms

#### 3.1 Responses Collected and Stored

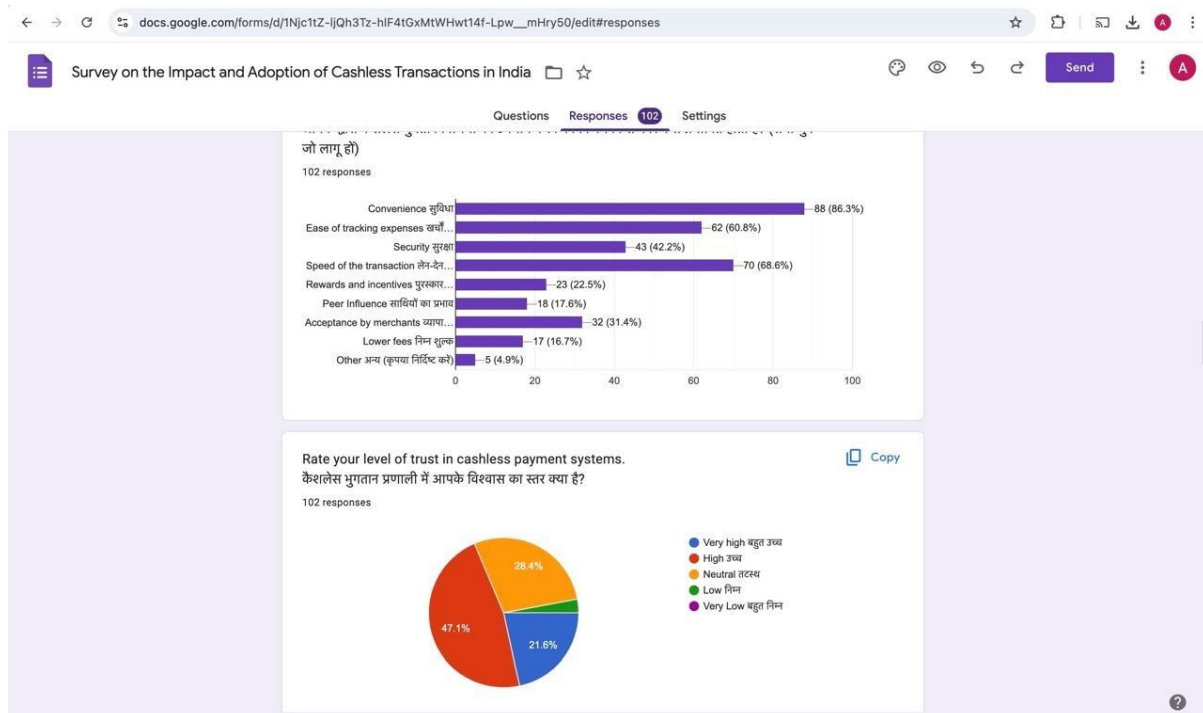


Figure 3. Responses Section on Google Forms

Source: Survey Data, 2024

## 3.2 Imported the responses in Microsoft Excel

	B	C	D	E	F	G	H	I	J
1	What is your age?	What is your gender?	What is your educational	What is your employment	Location	How frequently do you m	What types of cashless p	What are the factors that	Rate your level of trust in
2	1:40 25-34 years	Female	Master's degree (Postgr	Employed	Urban	Daily.	Mobile wallet	1 Security	Very high
3	1:57 18 to 24 years	Female	Master's degree (Postgr	Student	Suburban	Daily.	Debit card	Convenience	High
4	1:58 18 to 24 years	Male	Master's degree (Postgr	Student	Urban	Monthly	Debit card	Convenience	Very high
5	1:00 25-34 years	Male	Bachelor's degree (Unde	Employed	Urban	Daily.	UPI	Convenience	High
6	1:53 25-34 years	Female	Bachelor's degree (Unde	Employed	Urban	Daily.	Mobile wallet	1 Convenience	Neutral
7	1:34 18 to 24 years	Female	Master's degree (Postgr	Employed	Urban	Daily.	UPI	Convenience	Neutral
8	1:47 25-34 years	Female	Master's degree (Postgr	Self-employed	Urban	Daily.	UPI	Convenience	High
9	1:34 Under 18	Male	Secondary education (Cl	Student	Urban	Daily.	UPI	Convenience	High
10	1:22 18 to 24 years	Female	Master's degree (Postgr	Student	Urban	Daily.	Mobile wallet	1 Convenience	Very high
11	1:15 18 to 24 years	Male	Bachelor's degree (Unde	Self-employed	Urban	Daily.	Debit card	Convenience	High
12	1:57 25-34 years	Female	Higher secondary educat	Employed	Urban	Daily.	Debit card	Convenience	Neutral
13	1:00 45 to 54 years.	Female	Master's degree (Postgr	Employed	Urban	Daily.	Debit card	Convenience	High
14	1:38 25-34 years	Male	Master's degree (Postgr	Employed	Urban	Daily.	UPI	Convenience	High
15	1:13 18 to 24 years	Male	Master's degree (Postgr	Employed	Urban	Daily.	UPI	Convenience	Very high
16	1:18 35 to 44 years	Male	Bachelor's degree (Unde	Self-employed	Urban	Daily.	Mobile wallet	1 Convenience	Very high
17	1:52 35 to 44 years	Male	Doctorate (PhD or equiv	Employed	Urban	Daily.	Debit card	Convenience	High
18	1:41 45 to 54 years.	Female	Master's degree (Postgr	Employed	Urban	Weekly	Mobile wallet	1 Convenience	High
19	1:17 45 to 54 years.	Female	Master's degree (Postgr	Employed	Urban	Weekly	Debit card	Convenience	Very high
20	1:10 18 to 24 years	Male	Bachelor's degree (Unde	Student	Urban	Daily.	Debit card	Convenience	Very high
21	1:37 18 to 24 years	Male	Master's degree (Postgr	Self-employed	Urban	Daily.	UPI	Ease of tracking expense	High
22	1:45 18 to 24 years	Male	Master's degree (Postgr	Employed	Urban	Daily.	Credit card	Convenience	High
23	1:14 18 to 24 years	Female	Master's degree (Postgr	Employed	Urban	Daily.	UPI	Convenience	Neutral
24	1:16 18 to 24 years	Female	Master's degree (Postgr	Employed	Urban	Daily.	Debit card	Convenience	High
25	1:00 18 to 24 years	Female	Bachelor's degree (Unde	Employed	Urban	Daily.	Credit card	Convenience	High
26	1:55 18 to 24 years	Female	Bachelor's degree (Unde	Employed	Urban	Daily.	Debit card	Convenience	High
27	1:33 18 to 24 years	Female	Master's degree (Postgr	Student	Urban	Weekly	Debit card	Convenience	High

Figure 4. Primary Data  
Source: Survey Data, 2024

## 3.3 Filled the Data in SPSS

	Age	Gender	Education	Employment	Location	Frequency of Cashless Transactions	Trust Level	CLT	Economic Growth	Cashless Transaction Impact	Change in Spending Behavior	Concern for Information	Encouraged Friends and Relatives	Resilient to Cashless Transactions	Awareness of Government Initiatives	Effectiveness of Government Initiatives	Future of Cashless Transactions	Future of CLT
1	25 to 34	Female	Master's Degree	Employed	Urban	Daily	Very high	Strongly agree	High	Improve ...	Yes, increase ...	Very concerned	Prefer not to	Very Resilient	Yes	Effective	Rapid growth	Eliminated
2	18 to 24	Female	Master's Degree	Student	Suburban	Daily	High	Agree	Improve ...	Yes, increase ...	Neutral	No	Resilient	Yes	Effective	Rapid growth	Significant	Eliminated
3	18 to 24	Male	Master's Degree	Student	Urban	Monthly	Very high	Strongly agree	High	Improve ...	Yes, increase ...	Very concerned	Yes	Very Resilient	Yes	Very effective	Rapid growth	Eliminated
4	25 to 34	Male	Bachelor's Degree	Employed	Urban	Daily	High	Strongly agree	Improve ...	Yes, increase ...	Very concerned	No	Resilient	Yes	Effective	Rapid growth	Eliminated	Eliminated
5	25 to 34	Female	Bachelor's Degree	Employed	Urban	Daily	Neutral	Neutral	Reduce e...	Yes, increase ...	Very concerned	No	Resilient	No	Neutral	Moderate	Significant	Significant
6	18 to 24	Female	Master's Degree	Employed	Urban	Daily	Neutral	Agree	Improve ...	Yes, increase ...	Very concerned	No	Neutral	No	Neutral	Moderate	Significant	Significant
7	25 to 34	Female	Master's Degree	Self-empl...	Urban	Daily	High	Agree	Improve ...	Yes, increase ...	Concerned	No	Resilient	Yes	Very effective	Rapid growth	Significant	Significant
8	Under 18	Male	Secondary Educati...	Student	Urban	Daily	High	Agree	Improve ...	Yes, increase ...	Concerned	No	Resilient	Yes	Effective	Rapid growth	Significant	Significant
9	18 to 24	Female	Master's Degree	Student	Urban	Daily	Very high	Strongly agree	Improve ...	No signific...	Concerned	Yes	Neutral	Yes	Effective	Rapid growth	Significant	Significant
10	18 to 24	Male	Secondary Educati...	Self-empl...	Urban	Daily	High	Strongly agree	No effect	Yes, increase ...	Concerned	No	Resilient	Yes	Very effective	Rapid growth	Eliminated	Eliminated
11	25 to 34	Female	Higher Secondary	Employed	Urban	Daily	Neutral	Agree	Improve ...	Not sure	Very concerned	Yes	Neutral	No	Neutral	Rapid growth	Remain a...	Remain a...
12	45 to 54	Female	Master's Degree	Employed	Urban	Daily	High	Agree	Improve ...	Yes, increase ...	Not very ...	No	Resilient	Yes	Very effective	Rapid growth	Significant	Significant
13	25 to 34	Male	Master's Degree	Employed	Urban	Daily	High	Strongly agree	Improve ...	Yes, increase ...	Concerned	Yes	Very Resilient	Yes	Effective	Moderate	Significant	Significant
14	18 to 24	Male	Master's Degree	Self-empl...	Urban	Daily	Very high	Strongly agree	Improve ...	Yes, increase ...	Not conce...	No	Resilient	No	Neutral	Rapid growth	Eliminated	Eliminated
15	35 to 44	Male	Bachelor's Degree	Self-empl...	Urban	Daily	Very high	Agree	Improve ...	Yes, increase ...	Very concerned	No	Very Resilient	Yes	Effective	Rapid growth	Eliminated	Eliminated
16	35 to 44	Male	Doctorate	Employed	Urban	Daily	High	Strongly agree	Improve ...	Yes, increase ...	Very concerned	No	Vulnerable	Yes	Very effective	Rapid growth	Remain a...	Remain a...
17	45 to 54	Female	Master's Degree	Employed	Urban	Weekly	High	Strongly agree	Improve ...	Not sure	Concerned	No	Neutral	Yes	Very effective	Rapid growth	Significant	Significant
18	45 to 54	Female	Master's Degree	Employed	Urban	Weekly	Very high	Strongly agree	Improve ...	Yes, increase ...	Concerned	No	Very Resilient	No	Effective	Rapid growth	Significant	Significant
19	18 to 24	Male	Bachelor's Degree	Student	Urban	Daily	Very high	Strongly agree	Improve ...	Yes, increase ...	Not conce...	Yes	Neutral	Yes	Very effective	Rapid growth	Significant	Significant
20	18 to 24	Male	Master's Degree	Self-empl...	Urban	Daily	High	Neutral	Improve ...	Yes, increase ...	Neutral	Yes	Resilient	Yes	Effective	Rapid growth	Remain a...	Remain a...
21	18 to 24	Male	Master's Degree	Employed	Urban	Daily	High	Agree	Improve ...	Yes, increase ...	Concerned	Yes	Very Resilient	Yes	Effective	Rapid growth	Significant	Significant
22	18 to 24	Female	Master's Degree	Employed	Urban	Daily	Neutral	Agree	Improve ...	Yes, increase ...	Concerned	No	Neutral	Yes	Very effective	Rapid growth	Remain a...	Remain a...
23	18 to 24	Female	Master's Degree	Employed	Urban	Daily	High	Agree	Improve ...	Yes, increase ...	Concerned	No	Neutral	Yes	Effective	Rapid growth	Significant	Significant
24	18 to 24	Female	Bachelor's Degree	Employed	Urban	Daily	High	Strongly agree	Improve ...	Yes, increase ...	Concerned	No	Neutral	No	Effective	No signific...	Remain a...	Remain a...
25	18 to 24	Female	Bachelor's Degree	Employed	Urban	Daily	High	Neutral	Improve ...	Yes, increase ...	Very concerned	Yes	Neutral	Yes	Effective	Rapid growth	Significant	Significant
26	18 to 24	Female	Master's Degree	Student	Urban	Weekly	High	Neutral	Improve ...	Yes, increase ...	Concerned	No	Resilient	Yes	Effective	Rapid growth	Significant	Significant
27	18 to 24	Female	Bachelor's Degree	Student	Urban	Weekly	Very high	Agree	Improve ...	Yes, increase ...	Not very ...	No	Vulnerable	No	Neutral	Rapid growth	Significant	Significant
28	18 to 24	Female	Bachelor's Degree	Employed	Urban	Daily	High	Strongly agree	Improve ...	Yes, increase ...	Neutral	Prefer not...	Neutral	No	Effective	Rapid growth	Significant	Significant
29	25 to 34	Female	Bachelor's Degree	Self-empl...	Urban	Daily	High	Agree	Improve ...	No signific...	Neutral	No	Neutral	Yes	Effective	Rapid growth	Significant	Significant
30	18 to 24	Female	Bachelor's Degree	Part-time	Urban	Daily	Neutral	Agree	Improve ...	Yes, increase ...	Concerned	Yes	Resilient	Yes	Effective	Rapid growth	Remain a...	Remain a...

Figure 5. Data View  
Source: Survey Data, (2024)

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	Age	Numeric	8	2	Age	{1.00, Und...	None	8	Right	Nominal	Input
2	Gender	Numeric	8	2	Gender	{1.00, Mal...	None	8	Right	Nominal	Input
3	Education	Numeric	8	2	Education	{1.00, No...	None	14	Right	Nominal	Input
4	Employment	Numeric	8	2	Employment Status of the Sample Size	{1.00, Em...	None	8	Right	Nominal	Input
5	Location	Numeric	8	2	Region	{1.00, Urb...	None	8	Right	Nominal	Input
6	Frequency...	Numeric	8	2	Frequency of Cashless Transactions	{1.00, Dai...	None	8	Right	Nominal	Input
7	Trust_level...	Numeric	8	2	Level of Trust in Cashless Payment Systems	{1.00, Ver...	None	13	Right	Nominal	Input
8	CLT_Econo...	Numeric	8	2	Perceived Contribution of Cashless Transactions to Economic Growth	{1.00, Stro...	None	8	Right	Nominal	Input
9	Cashless_E...	Numeric	8	2	Impact of Cashless Transactions on Financial Efficiency	{1.00, Imp...	None	8	Right	Nominal	Input
10	Changes_i...	Numeric	8	2	Changes in Spending Patterns with Cashless Transactions	{1.00, Yes...	None	8	Right	Nominal	Input
11	Concern_f...	Numeric	8	2	Concern for Personal and Financial Information Security in Cashless Payments	{1.00, Ver...	None	8	Right	Nominal	Input
12	Encounter...	Numeric	8	2	Experience of Security Incidents in Cashless Transactions	{1.00, Yes...	None	8	Right	Nominal	Input
13	Resilience...	Numeric	8	2	Resilience of Cashless Payment Systems to Disruptions and Cyberattacks	{1.00, Ver...	None	8	Right	Nominal	Input
14	Awareness...	Numeric	8	2	Awareness of Government Initiatives Promoting Cashless Transactions in India	{1.00, Yes...	None	8	Right	Nominal	Input
15	Effectivene...	Numeric	8	2	Effectiveness of Government Initiatives in Promoting Cashless Payment Adoption	{1.00, Ver...	None	8	Right	Nominal	Input
16	Future_of...	Numeric	8	2	Perception of the Future of Cashless Transactions in India	{1.00, Rap...	None	8	Right	Nominal	Input
17	Future_ro...	Numeric	8	2	Envisioned Role of Cash in Future Transactions	{1.00, Eli...	None	8	Right	Nominal	Input
18	TypeofCLT...	Numeric	8	2		{.00, Not S...	None	8	Right	Nominal	Input
19	TypesofCL...	Numeric	8	2		{.00, Not S...	None	8	Right	Nominal	Input
20	TypesofCL...	Numeric	8	2		{.00, Not S...	None	8	Right	Nominal	Input
21	TypesofCL...	Numeric	8	2		{.00, Not S...	None	8	Right	Nominal	Input
22	TypesofCL...	Numeric	8	2		{.00, Not S...	None	8	Right	Nominal	Input
23											
24											
25											
26											
27											
28											
29											
30											
31											
32											
33											

Figure 6. Variable View  
Source: Survey Data (2024), analyzed using IBM SPSS

### 3.4 Analysis and Results

The data collected from the survey, stored in **Microsoft Excel**, was manually uploaded into **IBM SPSS** for statistical analysis. This section outlines the key steps taken in the analysis phase, which included descriptive statistics, frequency tables, and the generation of bar charts using Google Colab for visualization.

#### Descriptive Statistics

Descriptive statistics were calculated to summarize the demographic and behavioral characteristics of the respondents. This included:

**Mean:** Central tendency of the responses.

**Standard Deviation:** Variability of the responses.

**Skewness:** Measure of symmetry in the data distribution.

**Kurtosis:** Indication of how peaked or flat the data distribution is.



Descriptive Statistics									
	N Statistic	Minimum Statistic	Maximum Statistic	Mean Statistic	Std. Deviation Statistic	Skewness		Kurtosis	
						Statistic	Std. Error	Statistic	Std. Error
Age	102	1.00	6.00	2.7059	1.12213	1.507	.239	1.635	.474
Gender	102	1.00	2.00	1.4902	.50237	.040	.239	-2.039	.474
Education	102	3.00	8.00	5.2941	.81554	.189	.239	2.430	.474
Employment Status of the Sample Size	102	1.00	6.00	2.5882	1.78194	.495	.239	-1.556	.474
Region	102	1.00	3.00	1.1765	.40813	2.159	.239	3.914	.474
Frequency of Cashless Transactions	102	1.00	4.00	1.4510	.90791	1.970	.239	2.643	.474
Level of Trust in Cashless Payment Systems	102	1.00	4.00	2.1275	.77933	.156	.239	-.549	.474
Perceived Contribution of Cashless Transactions to Economic Growth	102	1.00	4.00	1.9412	.80621	.455	.239	-.450	.474
Impact of Cashless Transactions on Financial Efficiency	102	1.00	3.00	1.1863	.43895	2.324	.239	4.924	.474
Changes in Spending Patterns with Cashless Transactions	102	1.00	4.00	1.4020	.95710	2.083	.239	2.643	.474
Experience of Security Incidents in Cashless Transactions	102	1.00	3.00	1.7843	.51947	-.241	.239	-.019	.474
Concern for Personal and Financial Information Security in Cashless Payments	102	1.00	5.00	2.2549	1.00184	.731	.239	.474	.474
Resilience of Cashless Payment Systems to Disruptions and Cyberattacks	102	1.00	4.00	2.4020	.85896	-.024	.239	-.650	.474
Awareness of Government Initiatives Promoting Cashless Transactions in India	102	1.00	2.00	1.2451	.43227	1.203	.239	-.564	.474
Effectiveness of Government Initiatives in Promoting Cashless Payment Adoption	102	1.00	5.00	1.9902	.69646	.731	.239	2.354	.474
Perception of the Future of Cashless Transactions in India	102	1.00	4.00	1.2941	.53747	2.059	.239	5.577	.474
Envisioned Role of Cash in Future Transactions	102	1.00	4.00	2.0784	.59180	.274	.239	.757	.474
Valid N (listwise)	102								

Figure 7. Descriptive Statistics  
Source: Survey Data (2024), analyzed using IBM SPSS

## Frequency Tables

Frequency tables were generated to show the distribution of categorical variables, such as age groups, gender, education levels, and employment status. This provided a clear overview of how the population was structured demographically.

Gender					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Male	52	51.0	51.0	51.0
	Female	50	49.0	49.0	100.0
	Total	102	100.0	100.0	

Education							
	Valid						
	Secondary Education	Higher Secondary	Bachelor's Degree	Master's Degree	Doctorate	Other	Total
Frequency	3	6	57	32	2	2	102
Percent	2.9	5.9	55.9	31.4	2.0	2.0	100.0
Valid Percent	2.9	5.9	55.9	31.4	2.0	2.0	100.0
Cumulative Percent	2.9	8.8	64.7	96.1	98.0	100.0	

Employment					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Employed	48	47.1	47.1	47.1
	Self-employed	13	12.7	12.7	59.8
	Part-time	6	5.9	5.9	65.7
	Unemployed	4	3.9	3.9	69.6
	Student	30	29.4	29.4	99.0
	Retired	1	1.0	1.0	100.0
	Total	102	100.0	100.0	

Frequencies

Fig 8. Frequency Tables  
Source: Survey Data (2024), analysed using IBM SPSS

## Cross Tabulation Analysis

The **cross-tabulation** analysis depicted a significant relationship between participants' **awareness of government initiatives** and their **perceived effectiveness** in promoting cashless transactions. Those who were aware of the initiatives were more likely to view them as effective which was then supported by the Chi-Square test results (p-value < 0.001).



**Awareness of Government Initiatives Promoting Cashless Transactions in India \***  
**Effectiveness of Government Initiatives in Promoting Cashless Payment Adoption**  
**Crosstabulation**

Count		Effectiveness of Government Initiatives in Promoting Cashless Payment Adoption				Total
		Very effective	Effective	Neutral	Very ineffective	
Awareness of Government Initiatives Promoting Cashless Transactions in India	Yes	18	52	6	1	77
	No	4	9	12	0	25
Total		22	61	18	1	102

Chi-Square Tests			
	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	21.228 <sup>a</sup>	3	<.001
Likelihood Ratio	18.781	3	<.001
Linear-by-Linear Association	7.426	1	.006
N of Valid Cases	102		
a. 3 cells (37.5%) have expected count less than 5. The minimum expected count is .25.			

Figure 9: Cross Tabulation Analysis & Chi Square Tests  
Source: Survey Data (2024), analysed using IBM SPSS

### 3.5 Google Colab

Google Colab was used to generate bar charts. The survey data's multiple-choice questions were coded for visualization of the survey data. The key factors such as the most popular payment methods, advantages, challenges of cashless transactions, and concerns around privacy and security were represented.

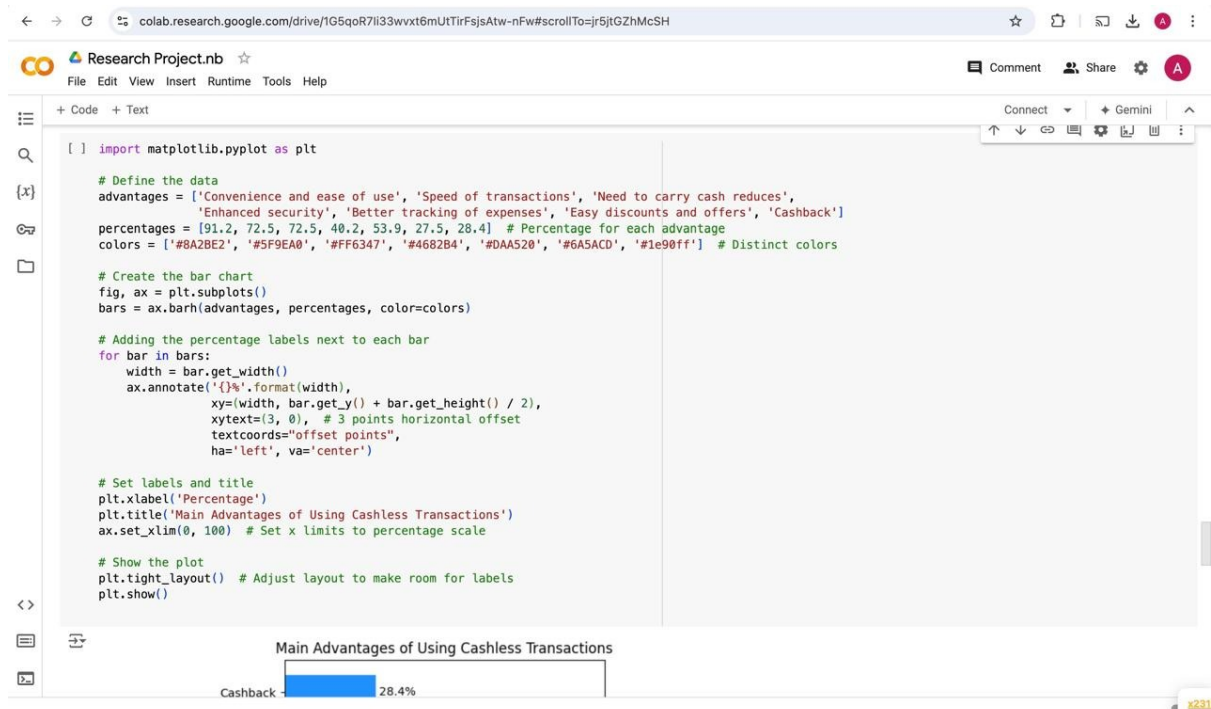


Figure 10. Google Colab Code  
Source: Survey Data (2024), analyzed using Google Colab

### 3.6 Output on Google Colab

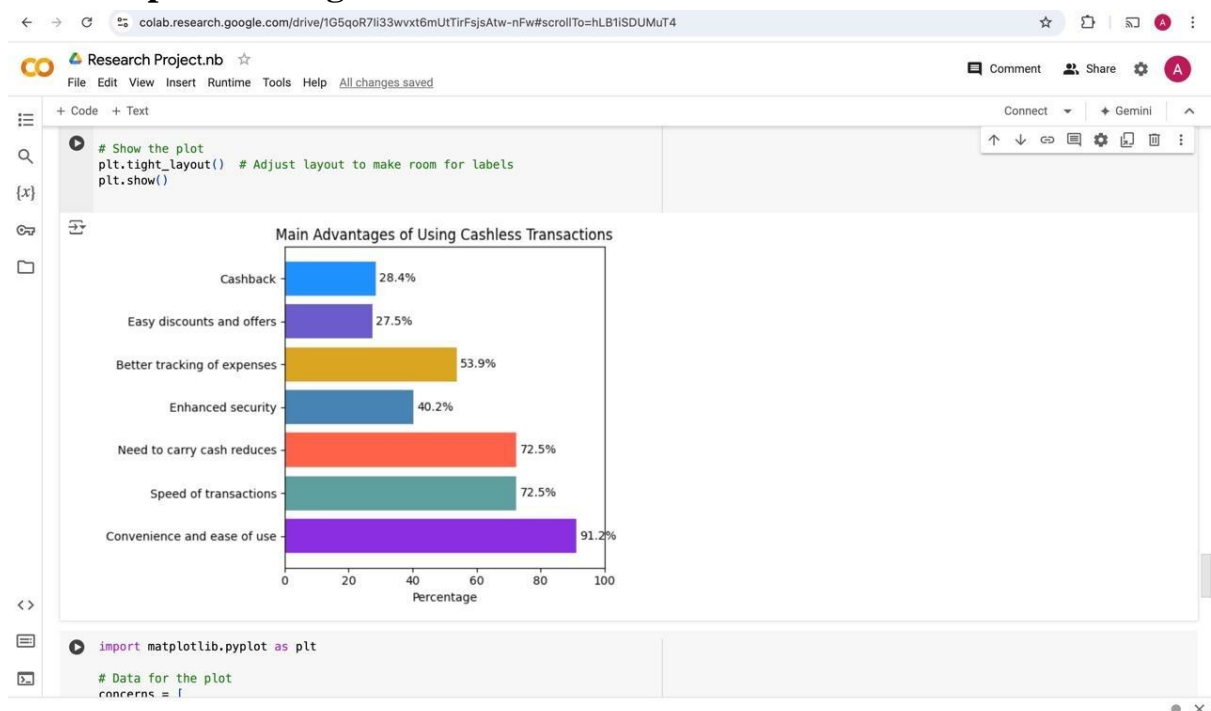


Figure 11. Bar Chart  
Source: Survey Data (2024), analyzed using Google Colab

]

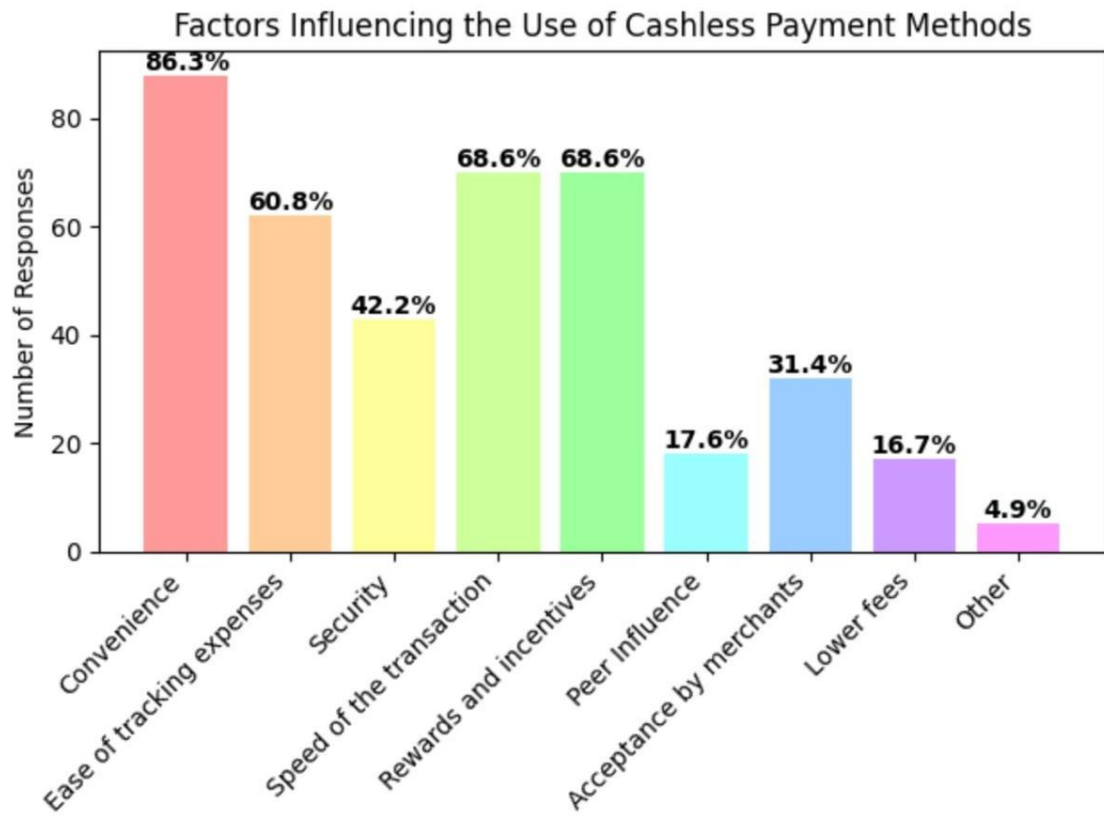
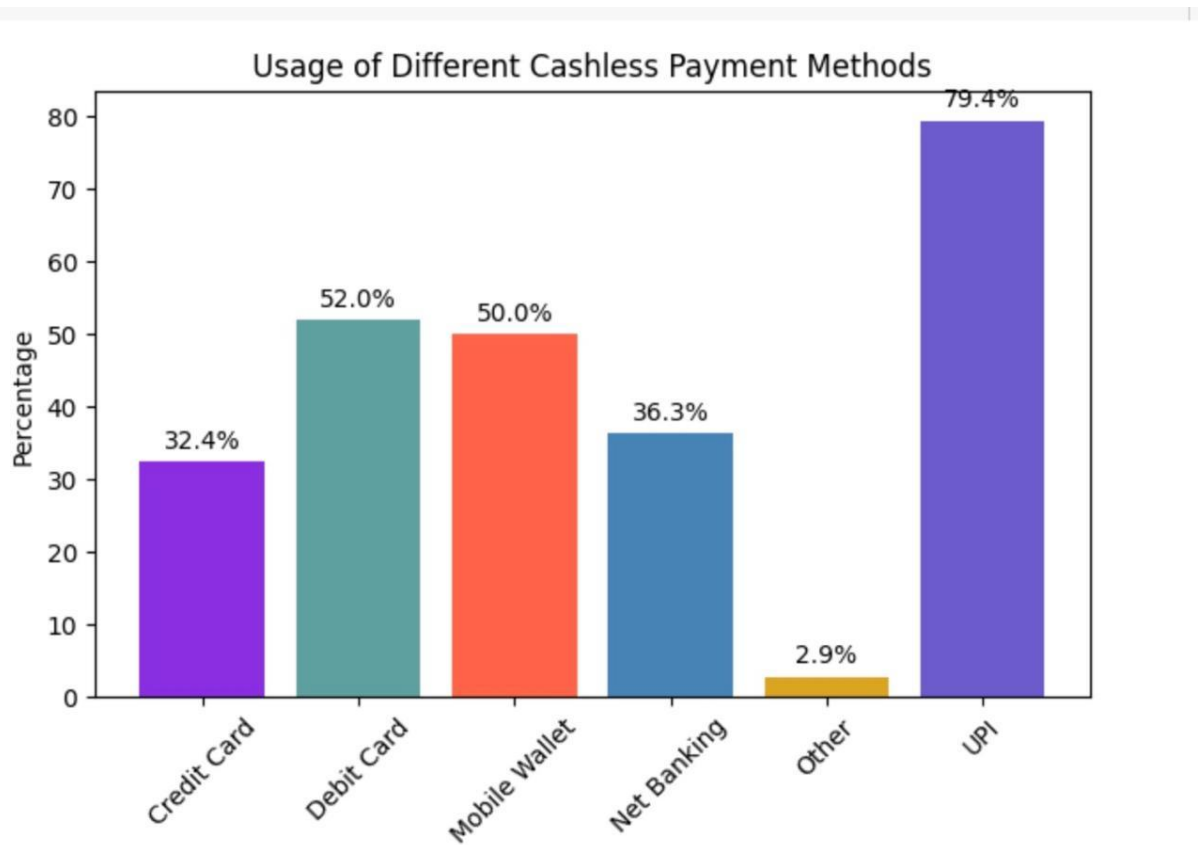
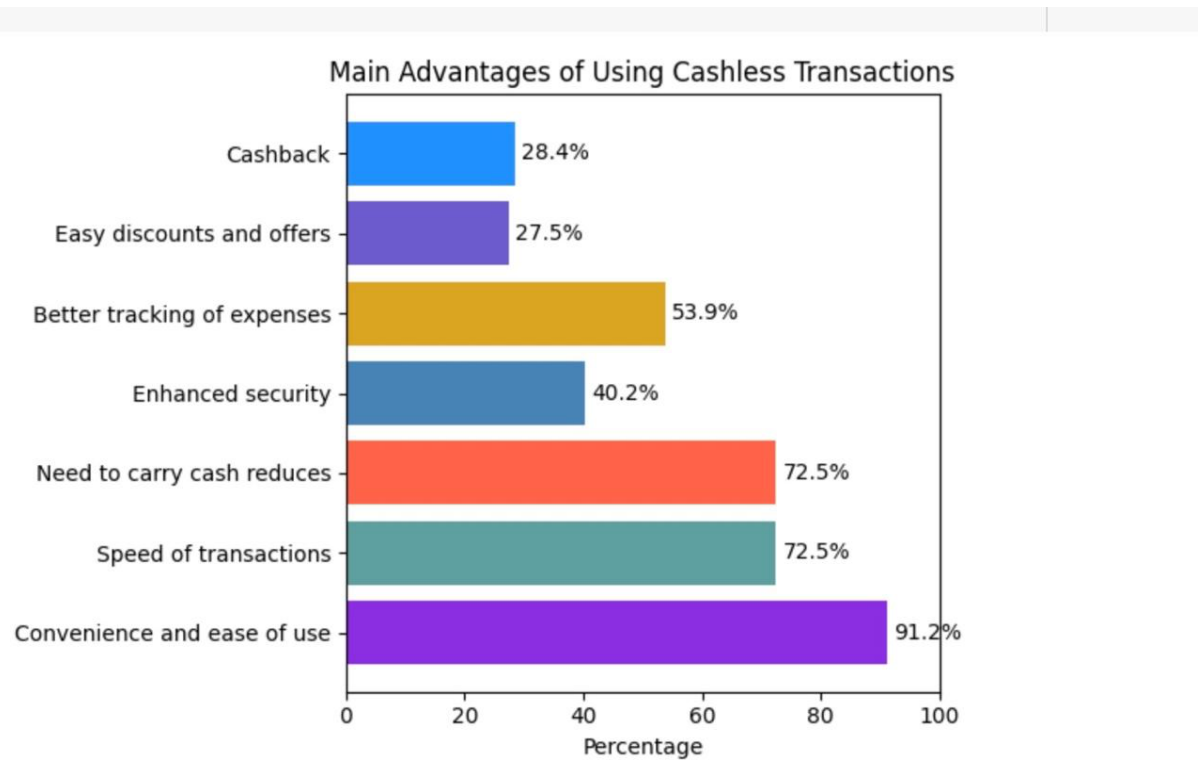


Figure 12. Bar Chart  
Source: Survey Data (2024), analyzed using Google Colab



4

Figure 13. Bar Chart  
1 Source: Survey Data (2024), analyzed using Google Colab



5

Figure 14. Bar Chart  
Source: Survey Data (2024), analyzed using Google Colab

The Google Colab analysis generated bar charts that displayed key findings from the survey data. The results showed that UPI (Unified Payment Interface) was the most popular payment method (used by 79.4% of respondents), followed by debit cards and mobile wallets. Additionally, convenience (91.2%) and transaction speed (72.5%) were considered the top advantages of cashless transactions, while privacy concerns (74.5%) and security issues (48%) were found to be the main challenges.

## References

Patten, M.L. and Newhart, M., 2017. *Understanding research methods*. 10th ed. New York: Routledge. Available at: <https://doi.org/10.4324/9781315213033>

Raj, V., Amilan, S., and Aparna, K., 2023. Developing and validating a cashless transaction adoption model (CTAM). *Journal of Science and Technology Policy Management*, [online] Available at: <https://www.emerald.com/insight/content/doi/10.1108/JSTPM-03-2023-0037/full/html>