



# How the INTERNET WORKS

A Visual Guide for Curious Kids

By LearnStack

Ages  
9-13

No Coding  
Required!



Understand the World You Already Live In



# How the Internet Works

## A Visual Guide for Curious Kids

A premium LearnStack visual handbook for curious Indian kids aged 9-13, parents and teachers.

This book makes the invisible world of the internet visible, tangible and magical using stories, analogies and diagrams before technical terms.

### DIGITAL EDITION

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### FOR PARENTS AND TEACHERS

Read the analogy first, then the technical idea. Ask the child to explain the concept back using their own example.

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### WHAT MAKES THIS BOOK DIFFERENT?

Every concept is connected to something a child can picture: dabbawalas, addresses, postcards, libraries, locks, apps, maps and everyday Indian life.



# Before We Begin...



You use the internet every single day.



No boring tech talk.



Ready? Let's go inside the internet. 🚀

— The LearnStack Team



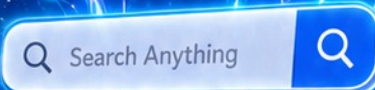
Online Videos



Live Class



Messages



Cricket Live

IND 245/6

OVERS 42.2

India is Winning!



Maps & Places



Cloud Storage



Email





# Before We Begin...

You use the internet every single day. You tap a YouTube video, send a WhatsApp message, search for a school project, check a cricket score or open an online class. But do you know what is actually happening behind the glass screen?

This book will show you. No boring tech talk. No confusing diagrams. Just the real story - told through dabbawalas, post offices, libraries, secret locks, maps, apps and everyday Indian life.

By the end of this book, you will understand something that many adults use every day but cannot easily explain. You will know what happens when you press Send, why websites need addresses, where data lives, why the padlock matters and how the future internet could be built by kids like you.

Ready? Let us go inside the internet.

- The LearnStack Team

## HOW TO USE THIS BOOK

1. Look at the picture. 2. Read the analogy. 3. Learn the real term. 4. Finish the activity. That is how invisible technology becomes visible.



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- Chapter 4: The Internet's Phone Book - What is DNS?

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*What are websites actually made of?*

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- Chapter 6: The Library That Never Closes - What is a server?
- Chapter 7: The Journey of a URL - What happens when you type a web address?

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### BONUS PAGES

Internet Hall of Fame | Internet speed stats | Glossary A-Z | Digital Explorer Certificate | Back cover



# PART 1

# THE BASICS

What **IS** the internet, really?



Like the Mumbai **Dabbawala** — a perfect delivery network!



Information travels in tiny **packets**. — fast and together!



Every device has an **IP address** — its digital mailbox!



**DNS** translates names you remember into addresses machines understand.

Let's start at the **beginning**.

# The World's Biggest Conversation



## Mumbai Dabbawala Network

Lunch on time, every time.  
Millions of meals. **Zero apps!**

**Two systems.  
Same idea.**

## The Internet Network

Messages on time, every time.  
Billions of conversations. **All the time!**

**1 You Pack**  
Lunch is packed in a tiffin.



**1 You Send**  
You type a message or click send.

**2 Pick-up Point**  
Tiffin is picked up and sorted by location.



**2 Your Router**  
Your router sends the data to the right destination.

**3 On the Move**  
Tiffins travel by bicycle, hand and local train.



**3 On the Move**  
Data travels across networks, cables and satellites.

**4 Sorting Hub**  
Tiffins are sorted again at the next station.



**4 Data Center**  
Data is sorted and routed at powerful servers.

**5 Final Delivery**  
Tiffin reaches your office, right on time!



**5 You Receive**  
Your message reaches the right device, instantly!



**Smart Code, No Computers!**  
Simple codes help dabbawalas deliver thousands of tiffins accurately, every single day.



**Smart Protocols, Powerful Code!**  
Rules and protocols help billions of messages find the right place, accurately, every second.

Same idea. Different scale.



# 1. The World's Biggest Conversation

Question, analogy and first idea

## THE BIG QUESTION

If the internet is not a place, what exactly is it?

## ANALOGY FIRST

**Analogy First: Mumbai Dabbawala Network**

A dabba does not teleport from a home kitchen to an office desk. It moves through a smart delivery network. Every tiffin has a code, a route, and handoffs. Many people cooperate, and the lunch reaches the right person.

The internet does the same thing with information instead of food: devices, cables, towers, routers and servers pass tiny pieces of data until they reach the right screen.

## IN ONE SENTENCE

The World's Biggest Conversation is easier to understand when you picture it through a real-world system you already know.

## THE REAL EXPLANATION

The internet is a giant network of computers and devices that can talk to one another. Your phone, your school computer, a YouTube server, a bank server and a smart TV can all become part of this network when they connect.

Nobody owns the whole internet. It is more like a huge road system. Different companies, governments, universities and engineers build parts of the roads. Together those parts create one connected world.

## VISUAL BRIDGE

Look at the chapter illustration again. Find the arrows, labels and handoffs. They show the invisible journey happening behind your screen.

## QUICK CHECK

Can you explain this chapter to a friend using only the analogy, without using technical words first?

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