

Backend Development Test



The coming decade is one of immense opportunity for India with a majority of our population under the age of 35 and the growing proliferation of global technology.

For a long time, India was known as the land of outsourced opportunities. The past decade however has shown that Indians can build global products and businesses. This is expected to grow manifold in the coming years provided we solve for one crucial element - skilled talent.

Today, there is a massive divide between aspirants looking for the right opportunities on one side, and companies vying for the best talent on the other. Historically exposure to opportunities has been defined by one's college, degree, or who they already knew in the industry. The events over the last year have only made the situation worse.

We believe it is high time that this changes for good! We believe that hiring should depend only on your capabilities and skills, not your college degree.

Being India's Largest Learning Platform, democratizing knowledge and access is a core tenet of the Unacademy Group. We are now extending that to opportunities through Relevel by leveling the playing field for millions of Indians. We imagine a future where candidates have a transparent path to the career of their dreams.

At Relevel, we believe your history doesn't matter. Your skills do. Your network doesn't matter. You do!

All the best. We know you can crack it!



What do I need to do?

The Backend Development test consists of a series of **5 rounds**, conducted on a single day. Candidates who score above **200** after Rounds 1 and 2 qualify for the subsequent rounds.

Achieve a Relevel score above **500** and be prepared to receive offers from multiple companies. **Here's how it works:**

★	Rounds 1 & 2	10:00 AM - 12:30 PM
	<ul style="list-style-type: none">• Back to Basics• Assess your Algo	
★	Rounds 3 & 4	2:30 PM - 6:00 PM
	<ul style="list-style-type: none">• Create your Feature• Optimize your Feature	
★	Round 5	6:00 PM Onwards
	<ul style="list-style-type: none">• Face the Interview	
✓	Result Declaration	within 5 working days after the test
👤	Company Placements	Continuous



Is this for me?

If you are looking to kickstart your career in **Backend Development** and you

- **Are a fresher or working professional**
- **Are actively looking for your first or next job**
- **Should be above 18 years of age**

This is the right test for you!

How do I apply?

Candidates can now register and take the test in three simple steps



Login to **relevel.com**



Book your slot and choose the day you wish to take the exam

Back to Basics

🕒 Duration: 45 min | Max Marks - 150

This round consists of 30 questions wherein the candidate is tested on the soundness of computer science fundamentals.

The candidate can expect questions around the core concepts of computer science like computer networks, operating systems, basic programming, databases etc.

Note: There will be negative marking for each question in this round. For each wrong answer, a penalty of 50% negative marking will be applied.

Assess your Algo

🕒 Duration: 1.5 hrs | Max Marks - 250

In this round, the candidate is expected to answer 3 coding questions that test their problem-solving skills and algorithmic thinking.

The candidates are required to code in the provided Integrated Development Environment (IDE) and solve the coding challenges within the time provided.

Create your Feature

🕒 Duration: 2 hrs | Max Marks - 150

In this round, the candidate is required to code and develop the backend of a web application (using either NodeJS or Python/Django or Java/Spring frameworks). The candidate will be provided with the problem statement and user stories (instructions on what features of the app need to be built) along with a boilerplate code template.

Within 2 hours, the candidate is expected to build the solution and also provide a screen recording explaining the code and functionality of the application he/she has developed.

Optimize your feature

🕒 **Duration: 1.5 hrs**

Max Marks - 150

In this round, the candidate is asked to extend the functionality of the app built in the previous round by either expanding the scope of the feature or adding new functionality to a section of the app.

In this round also, the candidate is expected to submit the solution and provide a screen recording explaining what they have done.

Face the Interview

🕒 **Duration: 1 hr**

Max Marks - 300

In this 45 min - 1 hr interview, a senior Backend Leader will test the candidate's ability to build products and work well with product teams in an organization. The candidate will be grilled on their fundamentals in algorithms along with concepts in object oriented programming and the backend development framework like NodeJS, Java/Spring or Python/Django.

The candidate might also be interviewed on the projects they mention on the resume and asked to solve problems live through screen sharing.



How am I shortlisted?

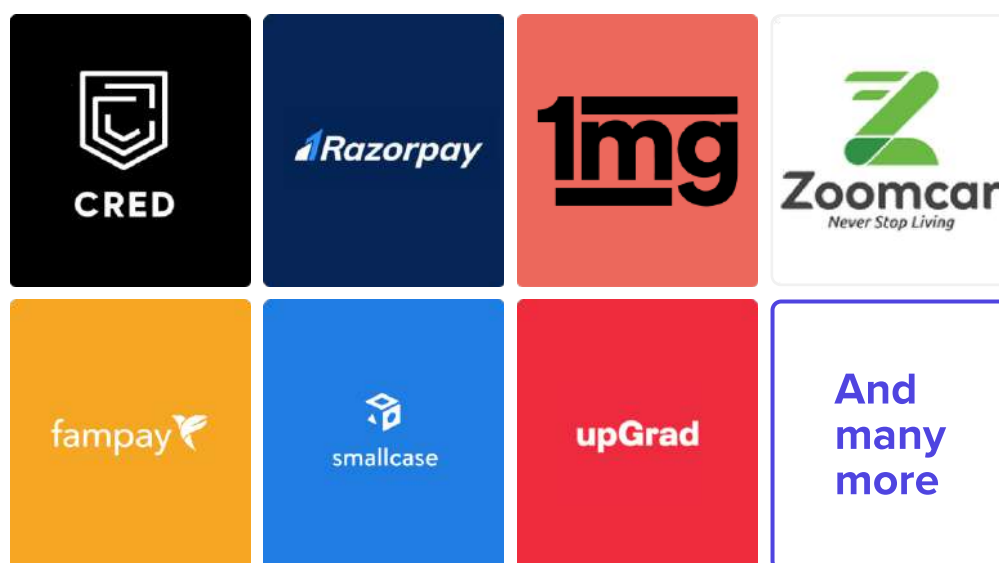
Qualification Criteria -

- Candidates who score more than 200 in Rounds 1 and 2 qualify for subsequent rounds
- Candidates who score more than 500 in total qualify the Relevel Test

Candidates will be called for interviews by companies based on their overall Relevel Score.

Which Companies will I be hired at?

We have close to **350+ jobs with CTC's upto 15 LPA** that are waiting for you




What does my result look like?

Each round is used to assess key competencies needed to perform in a Backend Development role. **All candidates who clear the test will receive a personalised profile as shown below:**

Bravo, you've completed the test!

Here are your results statistics for the test on June 21st 2021



970
/1000

Qualified

Share feedback to
unlock Breakdown






Share Feedback

Create Profile

Get your Relevel Profile verified
and get your dream job

Create

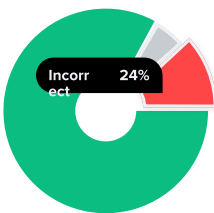
Skills and Areas of Knowledge

 Programming Fundamentals	44.3/200	▼
 DSA	44.3/200	▼
 App quality	44.3/200	▼
 Code quality	44.3/200	▼
 Code maintenance	44.3/200	▼

Roundwise Results

Round 1 Round 2 Round 3 Round 4 Round 5

Prove your aptitude



Incorrect 24%

- Correct
- Incorrect
- Unattempted

General Aptitude

Top Score

Avg. Score

90%

98%

76%



Syllabus

Computer Science Fundamentals

1. Basics of Programming - Loops, Conditionals, Functions, Recursion.
2. Time and Space Complexity.
3. Searching and Sorting - Linear Search, Binary Search, Quick Sort, Radix Sort, Merge Sort, Insertion Sort etc.
4. Basic Data Structures - Array, Linked List, Stack, Queues. Advanced Data Structures - Trees, Heaps and Graphs.
5. Object Oriented Programming - Inheritance, Polymorphism
6. Computer Networks, Database Management, Operating Systems

Suggested Reading Materials

1. [Database System Concepts](#)
2. [Introduction to Algorithms](#)
3. [Operating Systems](#)
4. [Computer Networks](#)

Backend Web Development

1. Javascript - Express. Node.js (or) Java - Spring MVC (or) Python - Django
2. MongoDB, SQL
3. Rest APIs, System Design

Suggested Reading Materials

- [Backend Web Development](#)

Is this all real?

Apply now and
find out for yourself

www.relevel.com
