

# TestGrid Device Cloud – Complete Product in Simple Words

## Main Purpose

TestGrid lets users **test websites and mobile apps on real devices and browsers online**, without owning them.

Simple flow:

User → TestGrid Dashboard → Cloud Server → Real Device/Browser → Result

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## 1. Browser Cloud (Web Testing)

### What it is:

Test websites on **real browsers** (Chrome, Firefox, Edge, etc.)

### Used for:

- ✓ UI testing
- ✓ Cross-browser testing
- ✓ Selenium automation

Example:

Test website on Chrome + Firefox remotely.

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## 2. Real Mobile Device Cloud (Mobile Testing)

### What it is:

Access **real Android & iPhone devices** online.

### Used for:

- ✓ App testing
- ✓ Appium automation
- ✓ Manual testing

Example:

Run app on real Samsung/iPhone from browser.



## 3. User Token (Authentication)



### What it is:

Security key to use APIs & automation.

### Used for:



Secure login



Appium/Selenium connection

Without token → No automation.

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## 4. Device Reservation System



### What it is:

Locks device for one user.

Free → Reserved → In Use → Released

### Benefit:



No conflicts



One user = One device

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## 5. App Management



### What it is:

Manage installed apps.

You can:



Upload APK/IPA



Install



Remove



Update

Used for testing new builds.

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## 6. Camera & Biometric Testing

### Image Injection

Fake camera input using images.

Used for:

- ✓ QR apps
- ✓ Camera apps

### Biometric

Test fingerprint / face unlock.

Used in:

- ✓ Banking apps
  - ✓ Secure apps
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## 7. Inspector, Object Spy & XPath



### For Automation Engineers

Tool	Use
Inspector	View UI elements
Object Spy	Get XML layout
XPath Search	Find elements
Used to write Appium scripts.	

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## 8. Geo-location Testing



### What it is:

Change device location.

Used for:

- ✓ Maps apps
- ✓ Delivery apps
- ✓ Travel apps

Example:

Test app as if user is in USA.

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## 9. ADB Native Commands



### What it is:

Run Android commands remotely.

Used for:

- ✓ Debugging
- ✓ Install apps
- ✓ Logs

Example:

```
adb logcat  
adb install
```

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## 10. Push Notification Testing



### What it is:

Test app notifications.

Used for:

- ✓ OTP apps
  - ✓ Chat apps
  - ✓ Banking alerts
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## 11. Image Annotation (JIRA Bugs)



### What it is:

Mark bugs on screenshots.

Used for:

- ✓ Reporting
- ✓ Team collaboration

Example:

Circle error → Send to JIRA.

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## 12. Manual Testing & Screen Recording



### What it is:

Record testing session.

Used for:

- ✓ Proof
- ✓ Training
- ✓ Bug evidence

Saved in cloud storage.

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## 13. TG Tunnel (TG Connect)



**What it is:**

Connect private/local apps.

Used when app is:

- ✗ Behind VPN
- ✗ On localhost

Local App → Tunnel → Device

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## 14. Central Video Repository



**What it is:**

Stores all recordings.

Used for:

- ✓ History
  - ✓ Audits
  - ✓ Review
- 



## 15. PIN Configuration



**What it is:**

Test locked devices.

Used for:

- ✓ Banking apps
  - ✓ Secure login apps
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## 16. TG Drive

### 👉 What it is:

Cloud storage for files.

Used for:

- ✓ APKs
  - ✓ Logs
  - ✓ Reports
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## 17. Browser Resolution & Actions

### 👉 What it is:

Test different screen sizes.

Used for:

- ✓ Responsive testing
- ✓ Mobile web testing

Example:

Desktop / Tablet / Mobile view.

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## 18. Remote Lite URL Access

### 👉 What it is:

Lightweight remote access link.

Used for:

- ✓ Quick sharing
  - ✓ Guest testing
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## 19. Audio Output Streaming

### 👉 What it is:

Hear device sound.

Used for:

- ✓ Music apps
- ✓ Video apps
- ✓ Call apps

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## 20. Virtual USB (vUSB)

### What it is:

Simulate USB connection.

Used for:

- ✓ Device debugging
- ✓ Special testing tools

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## 21. Multiple Language Support

### What it is:

Dashboard in many languages.

Used for:

- ✓ Global users
- ✓ International teams

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## 22. How Everything Works Together

### Complete Flow:

Login

- Get Token
- Reserve Device
- Install App
- Test (Manual/Auto)
- Record Logs/Video
- Report Bug
- Release Device

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## 23. Product in One Table

Area	Purpose
Browser Cloud	Web testing
Mobile Cloud	App testing
Token	Security
Reservation	Device control
Inspector	Automation

Area	Purpose
Tunnel	Private apps
Recording	Proof
Geo/Network	Real-world testing
Storage	Data saving

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## Final Understanding (For Interview / Mentor)

After learning this, you can say:

“TestGrid provides cloud-based real devices and browsers for manual and automation testing. It supports secure access, device reservation, Appium/Selenium integration, debugging tools, recording, and advanced testing like biometric, location, and network simulation.”

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