1. Email Provider Options

- Nodemailer (SMTP-based, free)
 - Works with Gmail, Outlook, or any custom SMTP server.
 - Great for **development** or **small-scale projects**.
- Third-party email services (better for production)
 - SendGrid
 - o Resend (modern, works really well with Next.js)
 - Postmark
 - o AWS SES

For production: It's best to create an account with **Resend**, **SendGrid**, **or AWS SES** for reliable email delivery.

2. WhatsApp Notifications

- Twilio WhatsApp API
- Meta WhatsApp Cloud API
- Growby (Sprouto) WhatsApp API
 - Business-initiated messages → ₹0.49 per message
 - User-initiated messages → ₹0.29 per message

Messaging & Notification Provider Options with Pricing

Gupshup

Cost per template message:

- o WhatsApp fee ≈ US\$0.0042
- o Gupshup platform fee ≈ US\$0.001
- o Total ≈ US\$0.0052/message

If you send 1,000 template messages: 1,000 × 0.0052 ≈ US\$5.20 total

2. WATI (Growth Plan)

- Monthly subscription: ₹2,499 (~US\$30)
- Message costs: Charged separately (WhatsApp's official rates apply).
 - o Light usage → mostly covered by the base subscription.
 - Heavy usage → extra per conversation/message charges get added.

3. SMS Notifications

- Providers: Twilio, Nexmo (Vonage), AWS SNS.
- Pricing Example (Twilio):
 - o Around \$0.005 (~₹0.40) per SMS (Twilio fee only).
 - o If it's a **WhatsApp templated message**, Meta also adds a template fee.
 - So, sending a business-initiated WhatsApp message in India could cost about ₹0.50-₹1+ per message.

Messaging & Notification Provider Options with Pricing

For production: AWS SNS

⇒AWS SES (Simple Email Service)

- ->A scalable, reliable, and low-cost email service from AWS.
- ->Great for transactional emails (like OTPs, password resets, notifications) and marketing emails (like newsletters).
- ->Can be integrated directly into a Next.js app or through AWS SDKs.

Pricing (India region example)

- Outbound emails:
 - **\$0.10 per 1,000 emails** (~₹8 for 1,000 emails).
- Inbound emails (receiving):
 - \$0.10 per 1,000 emails received.
- Attachments:
 - Additional charge of **\$0.12 per GB of attachments sent**.
- Extra (if sending outside EC2/Lambda):
 - You pay normal AWS data transfer fees.

Free Tier:

• First **62,000 emails per month free** (when you send from an **Amazon EC2 instance or Lambda**).

Messaging & Notification Provider Options with Pricing

➤ Pricing (India)

- Email (AWS SES): ~₹8 per 1,000 emails (62k/month free via EC2).
- **SMS** (**Twilio/AWS SNS**): ~₹400 per 1,000 SMS.
- WhatsApp (Gupshup): ~₹430 per 1,000 msgs (no subscription).
- WhatsApp (WATI): ₹2,499/month base + ₹0.49/msg → ~₹2,989 per 1,000 msgs.

Best combo for production:

- Email → AWS SES (cheapest).
- WhatsApp → Gupshup (usage-based, no fixed fee).
- SMS fallback → AWS SNS/Twilio.