# **🗓 Sprint Task Breakdown – Version 2.3 (Support the Mission)**

**Timeline:** Feb 28 – Mar 13  
 **Goal:** Introduce donation functionality to allow users to support the developers with a default ₹100 contribution.

## **🌀 Sprint 16: Feb 28 – Mar 13**

**Sprint Goal:** Launch donation feature with secure payment integration

### **✅ Frontend Tasks**

* Add "Donate" button to settings/about screen and study result screen (e.g., "Found this helpful? Support with ₹100")
* Create donation UI with:  
  + Default ₹100 quick-donate button
  + Optional custom amount field with validation (₹10–₹5000, digit-only)
  + UPI/Wallet/Card selection
  + Error state: failed/cancelled payment toast/snackbar + retry CTA
* Design multilingual thank-you screen (EN/HI/ML) with transaction summary and gratitude message
* Include option to receive a digital receipt via email
* Display disclaimer: "This is a voluntary donation to support development; not tax deductible."
* Auto-switch payment gateway (Razorpay or Stripe) based on user region (IN or INTL)

### **✅ Backend Tasks**

* Integrate Razorpay (India) + Stripe (international fallback)
* Firestore schema: donations (txn ID, user ID/device ID, amount, currency, method, timestamp, status)
* Use Firebase Functions for:  
  + Receipt email (via SendGrid or Gmail API)
  + Server-side signature verification of Razorpay webhook
  + Save metadata post-confirmation only
  + Handle re-sending of receipts if payment confirmed but receipt fails
* Spam and profanity filter for custom messages (if any)

### **✅ DevOps Tasks**

* Set up Razorpay merchant account + Stripe fallback with test & live keys
* Configure webhook endpoint (Supabase/Cloud Function) with secure signature validation
* Alerts:  
  + Log failed/delayed transactions
  + Retry mechanism for failed receipts
  + Slack/email alert on anomalous spikes or repeated failure patterns
* QA: test all flows in Razorpay sandbox + production using UPI, wallet, cards
* Backup donation logs regularly

### **⚠️ Dependencies / Risks**

* Razorpay KYC/approval delays for live environment
* Ensuring compliance with Indian digital donation regulations
* Must securely verify webhook origin to prevent fraud/spoofing
* Anonymous donations must be linked via session/device ID if user ID not present
* Donation restore/retry logic must work across dropped network scenarios
* Future: PAN/receipt handling if donation exceeds ₹2000 per user