

## Functional & Performance Testing Template

### Model Performance Test

|               |  |
|---------------|--|
| Date          | 12 February 2026                                   |
| Team ID       | LTVIP2026TMIDS65698                                |
| Project Name  | TransLingua – AI-Powered Multi-Language Translator |
| Maximum Marks | 4 marks  |

### Test Scenarios & Results

| Test Case ID | Scenario (What to Test)       | Test Steps (How to Test)                        | Expected Result  | Actual Result  | Pass/Fail |
|--------------|-------------------------------|---|--|--|-----------|
| FT-01        | Text Input Validation         | Enter valid text and leave input empty          | Valid text is accepted; empty input shows validation message | System accepts valid input and shows warning for empty input | Pass      |
| FT-02        | Language Selection Validation | Select valid source and target languages        | System allows valid language selection                       | Language selection works correctly                           | Pass      |
| FT-03        | Translation Generation        | Enter text, select languages, click "Translate" | Translated output is generated using Gemini AI               | Correct translation is generated                             | Pass      |
| FT-04        | API Connection Check          | Run application with valid API key              | Application connects to Gemini API successfully              | API response received successfully                           | Pass      |

|       |                          |  |  |                                       |      |
|-------|--------------------------|--|--|---------------------------------------|------|
| FT-05 | Invalid API Key Handling | Use incorrect API key and run application          | System shows authentication error        | Error message displayed properly      | Pass |
| PT-01 | Response Time Test       | Measure time taken to generate translation         | Translation generated within 3 seconds   | Average response time under 3 seconds | Pass |
| PT-02 | Multiple Requests Test   | Perform multiple translation requests sequentially | System handles requests without crashing | Application remains stable            | Pass |