TEST CASES	Feature/Module	Test Description	Expected Result	Status
1	Homepage GET	GET / returns HTTP 200	Status code 200, no error message	▼ Passed
2	Static assets	Request /static/ plots directory returns 200	Static files directory browsable (or 404 for missing) without crashing	V Passed
3	Template syntax	Rendering index.html with no context	No Jinja syntax errors on startup	▼ Passed
4	sigmoid helper	sigmoid(0), sigmoid(10), sigmoid(-10)	Approximately 0.5, ~0.99995, ~0.000045	▼ Passed
5	Prediction logic	Feed a known input vector where model output < 0.5 and > 0.5	Returns 0 ("No Risk") below threshold, 1 ("At Risk") above	▼ Passed
6	Scale & transform	Load scaler.pkl, transform dummy feature	Transformed array shape matches input (no exception)	▼ Passed
7	BMI chart creation	Call process_user_inpu t with BMI=22, 30,	Files bmi_ <ts>.png written into /static/ plots; images open</ts>	V Passed
8	BP chart creation	Call process_user_inpu t with ap_hi=120, ap_lo=80	Files bp_ <ts>.png written into /static/ plots; images open</ts>	V Passed
9	CSV logging	After prediction, check data/ retrieved/ predictions.csv exists and has appended row	CSV file exists; new line appended on each POST	V Passed
10	Form validation	Submit form with height=0 or weight=0	Rerender page with "Height and weight must be greater than zero." message	V Passed
11	Error handling on POST	POST with missing or non-numeric	Returns user-friendly error	V Passed

TEST CASES	Feature/Module	Test Description	Expected Result	Status
12	PDF route 400	Hit /download_pdf before any prediction	HTTP 400 + "No report to export."	Passed
13	Voice route GET	Hit /voice when collect_user_voice _input() returns None	Renders index.html with "Voice input failed." advice	Passed
14	cleanNumberInput	JS cleanNumberInput ("forty five"), "thirty-two"	Returns "45", "32"	✓ Passed
15	Advice panel hide	Page load (no prediction)	#adviceLeft and #adviceRight panels are display: none	✓ Passed
16	Voice panels hide	Page load (no voice action)	#voiceLeft and #voiceRight panels are display: none	✓ Passed
17	Export button rendering	After a successful prediction	"Export Full Report (PDF)" button appears in the .result block	✓ Passed
18	Logo in PDF	Generate PDF and open it	The logo.png is embedded at top left	Passed
19	Route / download_pdf 200	After a prediction, click Export	HTTP 200 with Content- Disposition: attachment; filename=*.pdf	✓ Passed
20	Type-effect function defined	JS environment on page load	typeof typeEffect === "function"	Passed

IN PROGRESS	Feature/Module	Test Description	Expected Result
21	Hard-coded advice logic	Advice lists populated correctly for various inputs	Correct messages for cholesterol/glucose/smoke/alco/active/age appear in adviceLeft/adviceRight
22	Advice panel show/hide	Advice panels only show on Predict, not on Voice form	#adviceLeft/ #adviceRight appear after Predict, never before
23	Voice-flow reprompt	Speak invalid choice to cholesterol ("five hundred")	JS reprompts: "Sorry, that's not an option- please say 1, 2, or 3."
24	Voice panels timing	Panels appear only during runVoiceForm() steps	#voiceLeft/ #voiceRight show per-question and hide afterward
25	PDF content quality	All sections (user data, charts, advice) fit one page	No overflow, readable layout