

■ Lost and Found Project Code Export

Full-stack Lost and Found application with React frontend and Flask backend

■ Project File Structure:

■ Frontend Files (React):

- postcss.config.js
- public\index.html
- src\App.css
- src\App.js
- src\App.test.js
- src\components\AdminTable.js
- src\components\ClaimsTable.js
- src\components\FeedbackForm.js
- src\components\FlashMessage.js
- src\components\Header.js
- src\components\ItemTable.js
- src\components\MessageList.js
- src\index.css
- src\index.js
- src\pages\AdminPage.js
- src\pages\HomePage.js
- src\pages\ItemRegisterPage.js
- src\pages\ItemsPage.js
- src\pages\LoginPage.js
- src\pages\RegisterPage.js
- src\reportWebVitals.js
- src\setupTests.js
- tailwind.config.js

■ Backend Files (Flask/Python):

- backend\app.py
- hash.py
- script.py

■■ Configuration Files:

- .gitignore
- lost_and_found.sql

■ Other Files:

- Lost_and_Found_Code_Export.pdf

■ File: .gitignore

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=====
# See https://help.github.com/articles/ignoring-files/ for more about ignoring files.

# dependencies
/node_modules
/.pnp
.pnp.js

# testing
/coverage

# production
/build

# misc
.DS_Store
.env.local
.env.development.local
.env.test.local
.env.production.local

npm-debug.log*
yarn-debug.log*
yarn-error.log*
```

■ File: Lost_and_Found_Code_Export.pdf

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[Binary file - .pdf format]
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■ File: backend\app.py

```
=====
1: from flask import Flask, request, jsonify, session
2: from flask_bcrypt import Bcrypt
3: from flask_cors import CORS
4: import mysql.connector
5: from datetime import datetime, timedelta
6: import os
7: from apscheduler.schedulers.background import BackgroundScheduler
8: import atexit
9: from werkzeug.utils import secure_filename
10: import uuid
11:
12: app = Flask(__name__)
13:
14: app.config["SESSION_COOKIE_SAMESITE"] = "Lax"
15: app.config["SESSION_COOKIE_SECURE"] = False
16:
17: app.secret_key = "your_secret_key"
18: bcrypt = Bcrypt(app)
19:
20: UPLOAD_FOLDER = 'static/uploads'
21: ALLOWED_EXTENSIONS = {'png', 'jpg', 'jpeg', 'gif'}
22:
23: app.config['UPLOAD_FOLDER'] = UPLOAD_FOLDER
24:
25: # Ensure upload folder exists
26: os.makedirs(UPLOAD_FOLDER, exist_ok=True)
27:
28: def allowed_file(filename):
29:     return '.' in filename and filename.rsplit('.', 1)[1].lower() in ALLOWED_EXTENSIONS
30:
31: # Database connection
32: def get_db_connection():
33:     return mysql.connector.connect(
34:         host="localhost",
35:         user="root",
36:         password="Mysql@123",
37:         database="lost_and_founds"
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38:         )
39:
40: # Enable CORS on your Flask app
41: CORS(app, supports_credentials=True)
42:
43: # Authentication decorator
44: def login_required(f):
45:     def decorated_function(*args, **kwargs):
46:         if "user_id" not in session:
47:             return jsonify({"error": "Unauthorized"}), 401
48:         return f(*args, **kwargs)
49:     decorated_function.__name__ = f.__name__
50:     return decorated_function
51:
52: def admin_required(f):
53:     def decorated_function(*args, **kwargs):
54:         if "user_id" not in session or session.get("role") != "admin":
55:             return jsonify({"error": "Admin access required"}), 403
56:         return f(*args, **kwargs)
57:     decorated_function.__name__ = f.__name__
58:     return decorated_function
59:
60: # API Routes
61: @app.route("/api/login", methods=["POST"])
62: def login():
63:     data = request.get_json()
64:     email = data.get("email")
65:     password = data.get("password")
66:
67:     if not email or not password:
68:         return jsonify({"success": False, "error": "Email and password are required"}), 400
69:
70:     conn = get_db_connection()
71:     cursor = conn.cursor(dictionary=True)
72:
73:     try:
74:         cursor.execute("SELECT * FROM users WHERE email = %s", (email,))
75:         user = cursor.fetchone()
76:
77:         if user and bcrypt.check_password_hash(user["password"], password):
78:             session["user_id"] = user["id"]
79:             session["name"] = user["name"]
80:             session["role"] = user["role"]
81:             session["email"] = user["email"]
82:             return jsonify({
83:                 "success": True,
84:                 "user": {
85:                     "id": user["id"],
86:                     "name": user["name"],
87:                     "email": user["email"],
88:                     "role": user["role"]
89:                 }
90:             })
91:         else:
92:             return jsonify({"success": False, "error": "Invalid email or password"}), 401
93:     except Exception as e:
94:         return jsonify({"success": False, "error": "Database error"}), 500
95:     finally:
96:         conn.close()
97:
98: @app.route("/api/register", methods=["POST"])
99: def register():
100:     data = request.get_json()
101:     name = data.get("name")
102:     email = data.get("email")
103:     password = data.get("password")
104:     confirm_password = data.get("confirm_password")
105:
106:     if not all([name, email, password, confirm_password]):
107:         return jsonify({"success": False, "error": "All fields are required"}), 400
108:
109:     if password != confirm_password:
110:         return jsonify({"success": False, "error": "Passwords do not match"}), 400

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111:
112:     hashed_password = bcrypt.generate_password_hash(password).decode("utf-8")
113:     conn = get_db_connection()
114:     cursor = conn.cursor()
115:
116:     try:
117:         cursor.execute("INSERT INTO users (name, email, password, role) VALUES (%s, %s, %s, %s)",
118:                         (name, email, hashed_password, "user"))
119:         conn.commit()
120:         return jsonify({"success": True, "message": "Registration successful"})
121:     except mysql.connector.Error as err:
122:         if err.errno == 1062: # Duplicate entry
123:             return jsonify({"success": False, "error": "Email already registered"}), 409
124:         return jsonify({"success": False, "error": "Database error"}), 500
125:     finally:
126:         conn.close()
127:
128: @app.route("/api/logout", methods=["POST"])
129: def logout():
130:     session.clear()
131:     return jsonify({"success": True})
132:
133: @app.route("/api/user", methods=["GET"])
134: @login_required
135: def get_user():
136:     return jsonify({
137:         "id": session["user_id"],
138:         "name": session["name"],
139:         "email": session["email"],
140:         "role": session["role"]
141:     })
142:
143: @app.route("/api/dashboard", methods=["GET"])
144: @login_required
145: def dashboard():
146:     conn = get_db_connection()
147:     cursor = conn.cursor(dictionary=True)
148:
149:     try:
150:         # Get user's items
151:         cursor.execute("SELECT * FROM items WHERE created_by = %s ORDER BY created_at DESC", (session["user_id"],))
152:         user_items = cursor.fetchall()
153:
154:         # Get user's claims
155:         cursor.execute("""
156:             SELECT claims.*, items.name as item_name, items.description, items.location
157:             FROM claims
158:             JOIN items ON claims.item_id = items.id
159:             WHERE claims.claimed_by = %s
160:             ORDER BY claims.claimed_at DESC
161:             """, (session["user_id"],))
162:         user_claims = cursor.fetchall()
163:
164:         # Get user's messages
165:         cursor.execute("""
166:             SELECT messages.*, users.name as sender_name, items.name as item_name
167:             FROM messages
168:             JOIN users ON messages.sender_id = users.id
169:             JOIN items ON messages.item_id = items.id
170:             WHERE messages.receiver_id = %s
171:             ORDER BY sent_at DESC
172:             """, (session["user_id"],))
173:         messages = cursor.fetchall()
174:
175:         return jsonify({
176:             "user": {
177:                 "name": session["name"],
178:                 "email": session["email"],
179:                 "role": session["role"]
180:             },
181:             "items": user_items,
182:             "claims": user_claims,
183:             "messages": messages

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184:         })
185:     except Exception as e:
186:         return jsonify({"error": "Database error"}), 500
187:     finally:
188:         conn.close()
189:
190: @app.route("/api/items", methods=["GET"])
191: @login_required
192: def get_items():
193:     search_query = request.args.get("search", "")
194:     status_filter = request.args.get("status", "")
195:
196:     conn = get_db_connection()
197:     cursor = conn.cursor(dictionary=True)
198:
199:     try:
200:         # Building the SQL query
201:         query = """
202:             SELECT items.*, users.name AS creator_name
203:             FROM items
204:             LEFT JOIN users ON items.created_by = users.id
205:             WHERE 1=1
206:             """
207:         params = []
208:
209:         if search_query:
210:             query += " AND (items.name LIKE %s OR items.description LIKE %s OR items.location LIKE %s)"
211:             params.extend(['%' + search_query + '%', '%' + search_query + '%', '%' + search_query + '%'])
212:
213:         if status_filter:
214:             query += " AND items.status = %s"
215:             params.append(status_filter)
216:
217:         query += " ORDER BY items.created_at DESC"
218:
219:         cursor.execute(query, params)
220:         items = cursor.fetchall()
221:
222:         return jsonify({"items": items})
223:     except Exception as e:
224:         return jsonify({"error": "Database error"}), 500
225:     finally:
226:         conn.close()
227:
228: @app.route("/api/items", methods=["POST"])
229: @login_required
230: def create_item():
231:     try:
232:         name = request.form.get("name")
233:         description = request.form.get("description")
234:         location = request.form.get("location")
235:         status = request.form.get("status")
236:
237:         if not all([name, description, location, status]):
238:             return jsonify({"error": "All fields are required"}), 400
239:
240:         image_filename = None
241:         if 'image' in request.files:
242:             image = request.files['image']
243:             if image and allowed_file(image.filename):
244:                 filename = secure_filename(image.filename)
245:                 unique_filename = str(uuid.uuid4()) + "_" + filename
246:                 image_path = os.path.join(app.config['UPLOAD_FOLDER'], unique_filename)
247:                 image.save(image_path)
248:                 image_filename = f"uploads/{unique_filename}"
249:
250:         conn = get_db_connection()
251:         cursor = conn.cursor()
252:
253:         cursor.execute("""
254:             INSERT INTO items (name, description, location, status, image, created_by, created_at)
255:             VALUES (%s, %s, %s, %s, %s, %s, NOW())
256:             """, (name, description, location, status, image_filename, session["user_id"]))

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257:
258:         conn.commit()
259:         item_id = cursor.lastrowid
260:
261:         return jsonify({"success": True, "item_id": item_id, "message": "Item registered successfully"})
262:     except Exception as e:
263:         return jsonify({"error": "Failed to register item"}), 500
264:     finally:
265:         conn.close()
266:
267: @app.route("/api/items/<int:item_id>/claim", methods=["POST"])
268: @login_required
269: def claim_item(item_id):
270:     conn = get_db_connection()
271:     cursor = conn.cursor()
272:
273:     try:
274:         # Check if item exists and is not already claimed
275:         cursor.execute("SELECT * FROM items WHERE id = %s", (item_id,))
276:         item = cursor.fetchone()
277:
278:         if not item:
279:             return jsonify({"error": "Item not found"}), 404
280:
281:         if item[5] == 'claimed': # Assuming status is at index 5
282:             return jsonify({"error": "Item already claimed"}), 400
283:
284:         # Check if user already claimed this item
285:         cursor.execute("SELECT * FROM claims WHERE item_id = %s AND claimed_by = %s", (item_id, session["user_id"]))
286:         existing_claim = cursor.fetchone()
287:
288:         if existing_claim:
289:             return jsonify({"error": "You have already claimed this item"}), 400
290:
291:         # Insert the claim
292:         cursor.execute("""
293:             INSERT INTO claims (item_id, claimed_by, claimant_name, claimant_email, claimed_at)
294:             VALUES (%s, %s, %s, %s, NOW())
295:             """, (item_id, session["user_id"], session["name"], session["email"]))
296:
297:         # Update the item's status to 'claimed'
298:         cursor.execute("UPDATE items SET status = 'claimed' WHERE id = %s", (item_id,))
299:
300:         conn.commit()
301:         return jsonify({"success": True, "message": "Item claimed successfully"})
302:     except Exception as e:
303:         return jsonify({"error": "Failed to claim item"}), 500
304:     finally:
305:         conn.close()
306:
307: @app.route("/api/messages", methods=["POST"])
308: @login_required
309: def send_message():
310:     data = request.get_json()
311:     receiver_id = data.get("receiver_id")
312:     item_id = data.get("item_id")
313:     message_text = data.get("message")
314:
315:     if not all([receiver_id, item_id, message_text]):
316:         return jsonify({"error": "All fields are required"}), 400
317:
318:     conn = get_db_connection()
319:     cursor = conn.cursor()
320:
321:     try:
322:         cursor.execute("""
323:             INSERT INTO messages (sender_id, receiver_id, item_id, message, sent_at)
324:             VALUES (%s, %s, %s, %s, NOW())
325:             """, (session["user_id"], receiver_id, item_id, message_text))
326:
327:         conn.commit()
328:         return jsonify({"success": True, "message": "Message sent successfully"})
329:     except Exception as e:

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330:         return jsonify({"error": "Failed to send message"}), 500
331:     finally:
332:         conn.close()
333:
334: @app.route("/api/reply", methods=["POST"])
335: def api_reply_message():
336:     if "user_id" not in session:
337:         return jsonify({"error": "Please log in to send messages."}), 401
338:
339:     data = request.get_json()
340:     receiver_id = data.get("receiver_id")
341:     item_id = data.get("item_id")
342:     reply_text = data.get("message")
343:
344:     if not all([receiver_id, item_id, reply_text]):
345:         return jsonify({"error": "All fields are required."}), 400
346:
347:     conn = get_db_connection()
348:     cursor = conn.cursor()
349:
350:     try:
351:         cursor.execute(
352:             """
353:                 INSERT INTO messages (sender_id, receiver_id, item_id, message, sent_at)
354:                 VALUES (%s, %s, %s, %s, NOW())
355:                 """,
356:                 (session["user_id"], receiver_id, item_id, reply_text),
357:             )
358:         conn.commit()
359:         return jsonify({"success": True, "message": "Reply sent successfully!"})
360:     except mysql.connector.Error:
361:         return jsonify({"error": "Error sending reply."}), 500
362:     finally:
363:         conn.close()
364:
365:
366:
367: @app.route("/api/feedback", methods=["POST"])
368: @login_required
369: def submit_feedback():
370:     data = request.get_json()
371:     feedback_text = data.get("feedback")
372:
373:     if not feedback_text:
374:         return jsonify({"error": "Feedback text is required"}), 400
375:
376:     conn = get_db_connection()
377:     cursor = conn.cursor()
378:
379:     try:
380:         cursor.execute("""
381:             INSERT INTO feedback (user_id, feedback_text, submitted_at)
382:             VALUES (%s, %s, NOW())
383:             """, (session["user_id"], feedback_text))
384:
385:         conn.commit()
386:         return jsonify({"success": True, "message": "Thank you for your feedback!"})
387:     except Exception as e:
388:         return jsonify({"error": "Failed to submit feedback"}), 500
389:     finally:
390:         conn.close()
391:
392: @app.route("/api/admin/feedback/<int:feedback_id>", methods=["DELETE"])
393: @admin_required
394: def delete_feedback(feedback_id):
395:     conn = get_db_connection()
396:     cursor = conn.cursor()
397:
398:     try:
399:         cursor.execute("DELETE FROM feedback WHERE id = %s", (feedback_id,))
400:         conn.commit()
401:         return jsonify({"success": True, "message": "Feedback deleted successfully"})
402:     except Exception as e:
403:         print("Error deleting feedback:", e)

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403:         return jsonify({"error": "Failed to delete feedback"}), 500
404:     finally:
405:         conn.close()
406:
407: # Admin routes
408: @app.route("/api/admin/dashboard", methods=["GET"])
409: @admin_required
410: def admin_dashboard():
411:     conn = get_db_connection()
412:     cursor = conn.cursor(dictionary=True)
413:
414:     try:
415:         # Get all items
416:         cursor.execute("""
417:             SELECT items.*, users.name as creator_name
418:             FROM items
419:             JOIN users ON items.created_by = users.id
420:             ORDER BY items.created_at DESC
421:             """
422:         )
423:         items = cursor.fetchall()
424:
425:         # Get all claims
426:         cursor.execute("""
427:             SELECT claims.*, items.name as item_name, users.name as claimer_name
428:             FROM claims
429:             JOIN items ON claims.item_id = items.id
430:             JOIN users ON claims.claimed_by = users.id
431:             ORDER BY claims.claimed_at DESC
432:             """
433:         )
434:         claims = cursor.fetchall()
435:
436:         # Get all users
437:         cursor.execute("SELECT id, name, email, role FROM users WHERE role != 'admin'")
438:         users = cursor.fetchall()
439:
440:         # Get all feedback (FIXED)
441:         cursor.execute("""
442:             SELECT feedback.*, users.name as user_name
443:             FROM feedback
444:             JOIN users ON feedback.user_id = users.id
445:             ORDER BY feedbacksubmitted_at DESC
446:             """
447:         )
448:         feedback = cursor.fetchall()
449:
450:     return jsonify({
451:         "items": items,
452:         "claims": claims,
453:         "users": users,
454:         "feedback": feedback
455:     })
456: except Exception as e:
457:     print("Error in admin_dashboard:", e)
458:     return jsonify({"error": "Database error"}), 500
459: finally:
460:     conn.close()
461:
462:     conn = get_db_connection()
463:     cursor = conn.cursor(dictionary=True)
464:
465:     try:
466:         # Get all items
467:         cursor.execute("""
468:             SELECT items.*, users.name as creator_name
469:             FROM items
470:             JOIN users ON items.created_by = users.id
471:             ORDER BY items.created_at DESC
472:             """
473:         )
474:         items = cursor.fetchall()
475:         # Get all claims
476:         cursor.execute("""
477:             SELECT claims.*, items.name as item_name, users.name as claimer_name
478:             FROM claims
479:             JOIN items ON claims.item_id = items.id
480:             JOIN users ON claims.claimed_by = users.id
481:             ORDER BY claims.claimed_at DESC
482:             """
483:         )
484:         claims = cursor.fetchall()
485:
486:     return jsonify({
487:         "items": items,
488:         "claims": claims,
489:         "users": users,
490:         "feedback": feedback
491:     })
492: except Exception as e:
493:     print("Error in admin_dashboard:", e)
494:     return jsonify({"error": "Database error"}), 500
495: finally:
496:     conn.close()

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476:         JOIN items ON claims.item_id = items.id
477:         JOIN users ON claims.claimed_by = users.id
478:         ORDER BY claims.claimed_at DESC
479:     """
480:     claims = cursor.fetchall()
481:
482:     # Get all users
483:     cursor.execute("SELECT id, name, email, role, created_at FROM users WHERE role != 'admin' ")
484:     users = cursor.fetchall()
485:
486:     # Get all feedback
487:     cursor.execute("""
488:         SELECT feedback.*, users.name as user_name
489:         FROM feedback
490:         JOIN users ON feedback.user_id = users.id
491:         ORDER BY feedback.created_at DESC
492:     """)
493:     feedback = cursor.fetchall()
494:
495:     return jsonify({
496:         "items": items,
497:         "claims": claims,
498:         "users": users,
499:         "feedback": feedback
500:     })
501: except Exception as e:
502:     return jsonify({"error": "Database error"}), 500
503: finally:
504:     conn.close()
505:
506: @app.route("/api/admin/items/<int:item_id>", methods=["DELETE"])
507: @admin_required
508: def delete_item(item_id):
509:     conn = get_db_connection()
510:     cursor = conn.cursor()
511:
512:     try:
513:         # First delete any claims associated with the item
514:         cursor.execute("DELETE FROM claims WHERE item_id = %s", (item_id,))
515:
516:         # Delete any messages associated with the item
517:         cursor.execute("DELETE FROM messages WHERE item_id = %s", (item_id,))
518:
519:         # Then delete the item from the items table
520:         cursor.execute("DELETE FROM items WHERE id = %s", (item_id,))
521:
522:         conn.commit()
523:         return jsonify({"success": True, "message": "Item deleted successfully"})
524:     except Exception as e:
525:         return jsonify({"error": "Failed to delete item"}), 500
526:     finally:
527:         conn.close()
528:
529: @app.route("/api/admin/users/<int:user_id>", methods=["DELETE"])
530: @admin_required
531: def delete_user(user_id):
532:     conn = get_db_connection()
533:     cursor = conn.cursor()
534:
535:     try:
536:         # Delete claims associated with the user
537:         cursor.execute("DELETE FROM claims WHERE claimed_by = %s", (user_id,))
538:
539:         # Delete messages sent by the user
540:         cursor.execute("DELETE FROM messages WHERE sender_id = %s OR receiver_id = %s", (user_id, user_id))
541:
542:         # Delete feedback by the user
543:         cursor.execute("DELETE FROM feedback WHERE user_id = %s", (user_id,))
544:
545:         # Delete items created by the user
546:         cursor.execute("DELETE FROM items WHERE created_by = %s", (user_id,))
547:
548:         # Delete the user

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549:         cursor.execute("DELETE FROM users WHERE id = %s", (user_id,))
550:
551:         conn.commit()
552:         return jsonify({"success": True, "message": "User deleted successfully"})
553:     except Exception as e:
554:         return jsonify({"error": "Failed to delete user"}), 500
555:     finally:
556:         conn.close()
557:
558: @app.route("/api/admin/claims/<int:claim_id>", methods=["DELETE"])
559: @admin_required
560: def delete_claim(claim_id):
561:     conn = get_db_connection()
562:     cursor = conn.cursor()
563:
564:     try:
565:         # Step 1: Get item_id for the claim
566:         cursor.execute("SELECT item_id FROM claims WHERE id = %s", (claim_id,))
567:         result = cursor.fetchone()
568:
569:         if not result:
570:             return jsonify({"error": "Claim not found"}), 404
571:
572:         item_id = result[0]
573:
574:         print(f"?? Deleting claim_id={claim_id}, linked item_id={item_id}")
575:
576:         # Step 2: Delete the claim
577:         cursor.execute("DELETE FROM claims WHERE id = %s", (claim_id,))
578:
579:         # Step 3: Only update item status if it was 'claimed'
580:         cursor.execute(
581:             "UPDATE items SET status = 'found' WHERE id = %s AND status = 'claimed'",
582:             (item_id,))
583:     )
584:
585:     conn.commit()
586:     return jsonify({"success": True, "message": "Claim deleted and item status updated"})
587:
588: except Exception as e:
589:     import traceback
590:     traceback.print_exc() # Log full error to terminal
591:     return jsonify({"error": str(e)}), 500
592: finally:
593:     conn.close()
594:
595:
596: # Background job for cleaning old claims
597: def delete_old_claims():
598:     conn = get_db_connection()
599:     cursor = conn.cursor()
600:
601:     try:
602:         # Delete claims older than 7 days
603:         cursor.execute("""
604:             DELETE FROM claims WHERE claimed_at < %s
605:             """, (datetime.now() - timedelta(days=7),))
606:         claims_deleted = cursor.rowcount
607:
608:         # Update items status back to available if no active claims
609:         cursor.execute("""
610:             UPDATE items
611:                 SET status = 'available'
612:                 WHERE status = 'claimed' AND id NOT IN (SELECT item_id FROM claims)
613:             """)
614:         items_updated = cursor.rowcount
615:
616:         conn.commit()
617:         print(f"Deleted {claims_deleted} old claims and updated {items_updated} items.")
618:     except mysql.connector.Error as err:
619:         print(f"Error during cleanup: {err}")
620:     finally:
621:         conn.close()

```

```

622:
623: # Initialize the scheduler
624: scheduler = BackgroundScheduler()
625: scheduler.add_job(func=delete_old_claims, trigger="interval", hours=24) # Run daily
626: scheduler.start()
627:
628: # Ensure the scheduler shuts down properly when the app exits
629: atexit.register(lambda: scheduler.shutdown())
630:
631: # Error handlers
632: @app.errorhandler(404)
633: def not_found(error):
634:     return jsonify({"error": "Not found"}), 404
635:
636: @app.errorhandler(500)
637: def internal_error(error):
638:     return jsonify({"error": "Internal server error"}), 500
639:
640: if __name__ == "__main__":
641:     app.run(debug=True, port=5000)

```

■ File: hash.py

```

1: import bcrypt
2:
3: # Normal password
4: password = input("Admin@123").encode('utf-8')
5:
6: # Generate a salt
7: salt = bcrypt.gensalt()
8:
9: # Hash the password
10: hashed_password = bcrypt.hashpw(password, salt)
11:
12: print("Bcrypt Hash:", hashed_password.decode('utf-8'))

```

■■ File: lost_and_found.sql

```

1: -- Drop and create the database
2: DROP DATABASE IF EXISTS lost_and_found;
3: CREATE DATABASE lost_and_found;
4: USE lost_and_found;
5:
6: -- Users Table
7: CREATE TABLE users (
8:     id INT AUTO_INCREMENT PRIMARY KEY,
9:     name VARCHAR(255) NOT NULL,
10:    email VARCHAR(255) NOT NULL UNIQUE,
11:    password VARCHAR(255) NOT NULL,
12:    role ENUM('user', 'admin') DEFAULT 'user'
13: );
14:
15: -- Items Table
16: CREATE TABLE items (
17:     id INT AUTO_INCREMENT PRIMARY KEY,
18:     name VARCHAR(255) NOT NULL,
19:     description TEXT NOT NULL,
20:     location VARCHAR(255) NOT NULL,
21:     status ENUM('lost', 'found', 'claimed') NOT NULL DEFAULT 'lost',
22:     image VARCHAR(255) NOT NULL,
23:     created_by INT NOT NULL,
24:     created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
25:     FOREIGN KEY (created_by) REFERENCES users(id) ON DELETE CASCADE
26: );
27:
28: -- Claims Table
29: CREATE TABLE claims (
30:     id INT AUTO_INCREMENT PRIMARY KEY,
31:     item_id INT NOT NULL,

```

```

32:     claimed_by INT NOT NULL,
33:     claimant_name VARCHAR(255) NOT NULL,
34:     claimant_email VARCHAR(255) NOT NULL,
35:     claimed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
36:     FOREIGN KEY (item_id) REFERENCES items(id) ON DELETE CASCADE,
37:     FOREIGN KEY (claimed_by) REFERENCES users(id) ON DELETE CASCADE
38: );
39:
40: -- Messages Table
41: CREATE TABLE messages (
42:     id INT AUTO_INCREMENT PRIMARY KEY,
43:     sender_id INT NOT NULL,
44:     receiver_id INT NOT NULL,
45:     item_id INT NOT NULL,
46:     message TEXT NOT NULL,
47:     sent_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
48:     FOREIGN KEY (sender_id) REFERENCES users(id) ON DELETE CASCADE,
49:     FOREIGN KEY (receiver_id) REFERENCES users(id) ON DELETE CASCADE,
50:     FOREIGN KEY (item_id) REFERENCES items(id) ON DELETE CASCADE
51: );
52:
53: -- Feedback Table
54: CREATE TABLE feedback (
55:     id INT AUTO_INCREMENT PRIMARY KEY,
56:     user_id INT NOT NULL,
57:     feedback_text TEXT NOT NULL,
58:     submitted_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
59:     FOREIGN KEY (user_id) REFERENCES users(id) ON DELETE CASCADE
60: );
61:
62: -- Insert an admin user
63: INSERT INTO users (name, email, password, role) VALUES
64: ('Admin', 'admin@example.com', '$2b$12$/mfZLFCm9krbLWeMYZfVD.neFNZ7y4VvK0ysOMPt1HT1Q0y5Li/HC', 'admin');
65:
66: -- Trigger to update item status when claimed
67: DELIMITER //
68: CREATE TRIGGER update_item_status_on_claim
69: AFTER INSERT ON claims
70: FOR EACH ROW
71: BEGIN
72:     UPDATE items
73:     SET status = 'claimed'
74:     WHERE id = NEW.item_id;
75: END;
76: //
77: DELIMITER ;
78:
79: -- Stored Procedure to search for items
80: DELIMITER //
81: CREATE PROCEDURE search_items(IN search_term VARCHAR(255))
82: BEGIN
83:     SELECT *
84:     FROM items
85:     WHERE name LIKE CONCAT('%', search_term, '%')
86:         OR description LIKE CONCAT('%', search_term, '%');
87: END;
88: //
89: DELIMITER ;
90:
91: -- Example Data (optional)
92: INSERT INTO users (name, email, password, role) VALUES
93: ('John Doe', 'john@example.com', 'password123', 'user'),
94: ('Jane Smith', 'jane@example.com', 'password456', 'user');
95:
96: INSERT INTO items (name, description, location, status, image, created_by) VALUES
97: ('Lost Wallet', 'A brown leather wallet lost near the park.', 'City Park', 'lost', 'wallet.jpg', 1),
98: ('Found Keys', 'A set of keys with a red keychain found in the library.', 'Library', 'found', 'keys.jpg', 2);
99:
100: INSERT INTO claims (item_id, claimed_by, claimant_name, claimant_email) VALUES
101: (1, 2, 'Jane Smith', 'jane@example.com');
102:
103: INSERT INTO messages (sender_id, receiver_id, item_id, message) VALUES
104: (1, 2, 1, 'Hi, I think this is my wallet. Can we meet to discuss?'),

```

```
105: (2, 1, 1, 'Sure, let?s meet at the library tomorrow.');
106:
107: INSERT INTO feedback (user_id, feedback_text) VALUES
108: (1, 'Great platform, very helpful!'),
109: (2, 'It was easy to find the owner of the keys.');
```

■ File: postcss.config.js

```
=====
1: module.exports = {
2:   plugins: {
3:     tailwindcss: {},
4:     autoprefixer: {},
5:   },
6: }
```

■ File: public\index.html

```
=====
1: <!DOCTYPE html>
2: <html lang="en">
3:   <head>
4:     <meta charset="utf-8" />
5:     <link rel="icon" href="%PUBLIC_URL%/favicon.ico" />
6:     <meta name="viewport" content="width=device-width, initial-scale=1" />
7:     <meta name="theme-color" content="#000000" />
8:     <meta
9:       name="description"
10:      content="Web site created using create-react-app"
11:    />
12:    <link rel="apple-touch-icon" href="%PUBLIC_URL%/logo192.png" />
13:    <!--
14:      manifest.json provides metadata used when your web app is installed on a
15:      user's mobile device or desktop. See https://developers.google.com/web/fundamentals/web-app-manifest/
16:    -->
17:    <link rel="manifest" href="%PUBLIC_URL%/manifest.json" />
18:    <!--
19:      Notice the use of %PUBLIC_URL% in the tags above.
20:      It will be replaced with the URL of the `public` folder during the build.
21:      Only files inside the `public` folder can be referenced from the HTML.
22:
23:      Unlike "/favicon.ico" or "favicon.ico", "%PUBLIC_URL%/favicon.ico" will
24:      work correctly both with client-side routing and a non-root public URL.
25:      Learn how to configure a non-root public URL by running `npm run build`.
26:    -->
27:    <title>React App</title>
28:  </head>
29:  <body>
30:    <noscript>You need to enable JavaScript to run this app.</noscript>
31:    <div id="root"></div>
32:    <!--
33:      This HTML file is a template.
34:      If you open it directly in the browser, you will see an empty page.
35:
36:      You can add webfonts, meta tags, or analytics to this file.
37:      The build step will place the bundled scripts into the <body> tag.
38:
39:      To begin the development, run `npm start` or `yarn start`.
40:      To create a production bundle, use `npm run build` or `yarn build`.
41:    -->
42:  </body>
43: </html>
```

■ File: script.py

```
=====
1: import os
2: from reportlab.lib.pagesizes import A4
3: from reportlab.lib.units import mm
4: from reportlab.pdfgen import canvas
```

```

5:
6: def get_code_files(directory, excluded_files=None, excluded_dirs=None):
7:     """Fetch all project files except specified exclusions."""
8:     if excluded_files is None:
9:         excluded_files = {
10:             'package.json',
11:             'package-lock.json',
12:             'yarn.lock',
13:             'README.md',
14:             '.DS_Store',
15:             'Thumbs.db',
16:             'Desktop.ini',
17:             'favicon.ico',
18:             'logo192.png',
19:             'logo512.png',
20:             'manifest.json',
21:             'robots.txt'
22:         }
23:
24:     if excluded_dirs is None:
25:         excluded_dirs = {
26:             'node_modules',
27:             '.git',
28:             '__pycache__',
29:             'build',
30:             '.next',
31:             'dist',
32:             'coverage',
33:             '.nyc_output',
34:             'logs',
35:             'uploads', # Exclude the uploads directory with images
36:             'venv', # Exclude Python virtual environment
37:             'env', # Alternative venv name
38:             '.venv' # Alternative venv name
39:         }
40:
41:     code_files = {}
42:
43:     for root, dirs, files in os.walk(directory):
44:         # Skip excluded directories
45:         dirs[:] = [d for d in dirs if d not in excluded_dirs]
46:
47:         # Skip if current directory is an excluded directory
48:         if any(excluded_dir in root.split(os.sep) for excluded_dir in excluded_dirs):
49:             continue
50:
51:         for file in files:
52:             # Skip excluded files
53:             if file in excluded_files:
54:                 continue
55:
56:             file_path = os.path.join(root, file)
57:
58:             # Get file extension
59:             _, ext = os.path.splitext(file)
60:
61:             try:
62:                 # Try to read as text file first
63:                 if ext.lower() in {'.js', '.jsx', '.ts', '.tsx', '.css', '.scss', '.sass', '.less',
64:                                 '.html', '.htm', '.json', '.md', '.txt', '.xml', '.yaml', '.yml',
65:                                 '.config', '.gitignore', '.env', '.py', '.sh', '.bat', '.cmd',
66:                                 '.svg', '.dockerfile', '.editorconfig', '.eslintrc', '.prettierrc',
67:                                 '.sql', '.toml', '.ini', '.conf'} or file.startswith('.'):
68:                     with open(file_path, "r", encoding="utf-8", errors="ignore") as f:
69:                         code_files[file_path] = f.readlines()
70:
71:                 else:
72:                     # For binary files, just note them as binary
73:                     code_files[file_path] = [f"[Binary file - {ext} format]"]
74:
75:             except Exception as e:
76:                 print(f"? Error reading {file_path}: {e}")
77:                 code_files[file_path] = [f"[Error reading file: {str(e)}]"]

```

```

78:     return code_files
79:
80:
81: def create_pdf(code_data, output_pdf="Lost_and_Found_Code_Export.pdf"):
82:     c = canvas.Canvas(output_pdf, pagesize=A4)
83:     width, height = A4
84:     margin = 20 * mm
85:     line_height = 10
86:     y = height - margin
87:
88:     # Title
89:     c.setFont("Helvetica-Bold", 16)
90:     c.drawString(margin, y, "? Lost and Found Project Code Export")
91:     y -= 2 * line_height
92:
93:     # Project description
94:     c.setFont("Helvetica", 10)
95:     c.drawString(margin, y, "Full-stack Lost and Found application with React frontend and Flask backend")
96:     y -= line_height
97:
98:     c.setFont("Helvetica-Bold", 12)
99:     c.drawString(margin, y, "? Project File Structure:")
100:    y -= 2 * line_height
101:
102:    file_paths = sorted(list(code_data.keys()))
103:
104:    # 1. File list organized by category
105:    c.setFont("Courier", 8)
106:
107:    # Group files by type/location
108:    frontend_files = [f for f in file_paths if '/src/' in f or f.endswith('.js', '.jsx', '.css', '.html')]
109:    backend_files = [f for f in file_paths if '/backend/' in f or f.endswith('.py')]
110:    config_files = [f for f in file_paths if any(f.endswith(ext) for ext in ['.json', '.js', '.config', '.so']])
111:    other_files = [f for f in file_paths if f not in frontend_files and f not in backend_files and f not in config_files]
112:
113:    # Frontend files
114:    if frontend_files:
115:        c.setFont("Helvetica-Bold", 10)
116:        c.drawString(margin, y, "? Frontend Files (React):")
117:        y -= line_height
118:        c.setFont("Courier", 8)
119:        for path in frontend_files:
120:            if y < margin:
121:                c.showPage()
122:            c.setFont("Courier", 8)
123:            y = height - margin
124:            display_path = os.path.relpath(path)
125:            c.drawString(margin + 10, y, f"- {display_path}")
126:            y -= line_height
127:        y -= line_height
128:
129:    # Backend files
130:    if backend_files:
131:        c.setFont("Helvetica-Bold", 10)
132:        c.drawString(margin, y, "? Backend Files (Flask/Python):")
133:        y -= line_height
134:        c.setFont("Courier", 8)
135:        for path in backend_files:
136:            if y < margin:
137:                c.showPage()
138:            c.setFont("Courier", 8)
139:            y = height - margin
140:            display_path = os.path.relpath(path)
141:            c.drawString(margin + 10, y, f"- {display_path}")
142:            y -= line_height
143:        y -= line_height
144:
145:    # Configuration files
146:    if config_files:
147:        c.setFont("Helvetica-Bold", 10)
148:        c.drawString(margin, y, "?? Configuration Files:")
149:        y -= line_height
150:        c.setFont("Courier", 8)

```

```

151:     for path in config_files:
152:         if y < margin:
153:             c.showPage()
154:             c.setFont("Courier", 8)
155:             y = height - margin
156:             display_path = os.path.relpath(path)
157:             c.drawString(margin + 10, y, f"- {display_path}")
158:             y -= line_height
159:             y -= line_height
160:
161:     # Other files
162:     if other_files:
163:         c.setFont("Helvetica-Bold", 10)
164:         c.drawString(margin, y, "? Other Files:")
165:         y -= line_height
166:         c.setFont("Courier", 8)
167:         for path in other_files:
168:             if y < margin:
169:                 c.showPage()
170:                 c.setFont("Courier", 8)
171:                 y = height - margin
172:                 display_path = os.path.relpath(path)
173:                 c.drawString(margin + 10, y, f"- {display_path}")
174:                 y -= line_height
175:
176:     # Add page break before code content
177:     c.showPage()
178:     y = height - margin
179:
180:     # 2. File contents
181:     for file_path in file_paths:
182:         lines = code_data[file_path]
183:         print(f"? Adding: {file_path}")
184:
185:         if y < margin + 3 * line_height:
186:             c.showPage()
187:             y = height - margin
188:
189:         # File header
190:         rel_path = os.path.relpath(file_path)
191:         c.setFont("Helvetica-Bold", 12)
192:
193:         # Add file type indicator
194:         if '/src/' in rel_path:
195:             file_icon = "???" # React
196:         elif rel_path.endswith('.py'):
197:             file_icon = "?" # Python
198:         elif rel_path.endswith('.sql'):
199:             file_icon = "???" # Database
200:         elif rel_path.endswith('.css', '.scss')):
201:             file_icon = "?" # Styles
202:         elif rel_path.endswith('.js', '.jsx', '.ts', '.tsx')):
203:             file_icon = "?" # JavaScript
204:         else:
205:             file_icon = "?" # General
206:
207:         c.drawString(margin, y, f"{file_icon} File: {rel_path}")
208:         y -= line_height
209:
210:         # Add separator line
211:         c.setFont("Courier", 8)
212:         c.drawString(margin, y, "=" * 80)
213:         y -= line_height
214:
215:         # File content
216:         for line_num, line in enumerate(lines, 1):
217:             if y < margin:
218:                 c.showPage()
219:                 c.setFont("Courier", 8)
220:                 y = height - margin
221:
222:             # Clean and truncate line
223:             line = line.strip("\n").encode("latin-1", "replace").decode("latin-1")

```

```

224:
225:     # Add line numbers for code files
226:     if any(rel_path.endswith(ext) for ext in ['.js', '.jsx', '.ts', '.tsx', '.css', '.py', '.html',
227:         display_line = f"{line_num:3d}: {line[:275]}"
228:     else:
229:         display_line = line[:300]
230:
231:     c.drawString(margin, y, display_line)
232:     y -= line_height
233:
234:     # Add spacing between files
235:     y -= line_height
236:     if y > margin:
237:         c.setFont("Courier", 8)
238:         c.drawString(margin, y, "-" * 80)
239:         y -= 2 * line_height
240:
241:     c.save()
242:     print(f"? PDF successfully created: {output_pdf}")
243:     print(f"? Total files processed: {len(code_data)}")
244:
245:
246: def main():
247:     root_dir = os.path.dirname(os.path.abspath(__file__))
248:
249:     # Files to exclude (updated for Lost and Found project)
250:     excluded_files = {
251:         'package.json',
252:         'package-lock.json',
253:         'yarn.lock',
254:         'README.md',
255:         '.DS_Store',
256:         'Thumbs.db',
257:         'Desktop.ini',
258:         'favicon.ico',
259:         'logo192.png',
260:         'logo512.png',
261:         'manifest.json',
262:         'robots.txt',
263:         'logo.svg'  # React default logo
264:     }
265:
266:     # Directories to exclude (updated for Lost and Found project)
267:     excluded_dirs = {
268:         'node_modules',
269:         '.git',
270:         '__pycache__',
271:         'build',
272:         'dist',
273:         '.next',
274:         'coverage',
275:         '.nyc_output',
276:         'logs',
277:         'uploads',  # Contains uploaded images
278:         'static/uploads',  # Flask static uploads directory
279:         'venv',  # Python virtual environment
280:         'env',  # Alternative venv name
281:         '.venv'  # Alternative venv name (hidden)
282:     }
283:
284:     print("? Scanning Lost and Found project files...")
285:     print("? Including React frontend and Flask backend code...")
286:     code_files = get_code_files(root_dir, excluded_files, excluded_dirs)
287:
288:     if not code_files:
289:         print("? No files found to process!")
290:         return
291:
292:     print(f"? Found {len(code_files)} files to include in PDF")
293:
294:     # Show file breakdown
295:     frontend_count = len([f for f in code_files.keys() if '/src/' in f])
296:     backend_count = len([f for f in code_files.keys() if f.endswith('.py')])
```

```

297:     config_count = len([f for f in code_files.keys() if any(f.endswith(ext) for ext in ['.json', '.js', '.s'])
298:
299:     print(f"  ??  Frontend files: {frontend_count}")
300:     print(f"  ??  Backend files: {backend_count}")
301:     print(f"  ??  Config files: {config_count}")
302:     print(f"  ??  Other files: {len(code_files) - frontend_count - backend_count - config_count}")
303:
304:     create_pdf(code_files)
305:
306:
307: if __name__ == "__main__":
308:     main()

```

■ File: src\App.css

■ File: src\App.js

```

1: import {
2:   BrowserRouter as Router,
3:   Routes,
4:   Route,
5:   useLocation,
6: } from "react-router-dom";
7: import { useEffect } from "react";
8: import { Toaster } from "react-hot-toast";
9:
10: import LoginPage from "./pages/LoginPage";
11: import RegisterPage from "./pages/RegisterPage";
12: import HomePage from "./pages/HomePage";
13: import AdminPage from "./pages/AdminPage";
14: import ItemRegisterPage from "./pages/ItemRegisterPage";
15: import ItemsPage from "./pages/ItemsPage";
16: import Header from "./components/Header";
17:
18: // Wrapper component to conditionally show header
19: function LayoutWrapper() {
20:   const location = useLocation();
21:
22:   // Define paths where header should be hidden
23:   const hideHeaderPaths = ["/", "/register"];
24:   const shouldHideHeader = hideHeaderPaths.includes(location.pathname);
25:
26:   // Optional: Scroll to top on route change
27:   useEffect(() => {
28:     window.scrollTo(0, 0);
29:   }, [location.pathname]);
30:
31:   return (
32:     <>
33:       <Toaster position="top-center" reverseOrder={false} />
34:       {!shouldHideHeader && <Header />}
35:       <Routes>
36:         <Route path="/" element={<LoginPage />} />
37:         <Route path="/register" element={<RegisterPage />} />
38:         <Route path="/home" element={<HomePage />} />
39:         <Route path="/admin" element={<AdminPage />} />
40:         <Route path="/register-item" element={<ItemRegisterPage />} />
41:         <Route path="/lost-found-items" element={<ItemsPage />} />
42:       </Routes>
43:     </>
44:   );
45: }
46:
47: export default function App() {
48:   return (
49:     <Router>
50:       <LayoutWrapper />
51:     </Router>

```

```
52:     );
53: }
```

■ File: src\App.test.js

```
1: import { render, screen } from '@testing-library/react';
2: import App from './App';
3:
4: test('renders learn react link', () => {
5:   render(<App />);
6:   const linkElement = screen.getByText(/learn react/i);
7:   expect(linkElement).toBeInTheDocument();
8: });
```

■ File: src\components\AdminTable.js

```
1: export default function AdminTable({
2:   title,
3:   type,
4:   data,
5:   headers,
6:   rowRenderer,
7: }) {
8:   return (
9:     <section className="mb-8">
10:       <h2 className="text-xl font-bold text-gray-800 mb-3">{title}</h2>
11:
12:       {data.length === 0 ? (
13:         <p className="text-gray-500 text-sm italic">No {type}s found.</p>
14:       ) : (
15:         <div className="overflow-x-auto shadow border border-gray-200 rounded-lg">
16:           <table className="min-w-full text-sm text-left text-gray-700">
17:             <thead className="bg-gray-100 text-xs uppercase text-gray-600 sticky top-0 z-10">
18:               <tr>
19:                 {headers.map((h, idx) => (
20:                   <th key={idx} className="px-5 py-3 border-b font-bold">
21:                     {h}
22:                   </th>
23:                 )))
24:               </tr>
25:             </thead>
26:
27:             <tbody>
28:               {data.map((item, i) => (
29:                 <tr
30:                   key={i}
31:                   className={`border-b ${
32:                     i % 2 === 0 ? "bg-white" : "bg-gray-50"
33:                   } hover:bg-blue-50 transition duration-150`}
34:                 >
35:                   {rowRenderer(item).map((cell, j) => (
36:                     <td key={j} className="px-5 py-3 whitespace nowrap">
37:                       {cell}
38:                     </td>
39:                   )))
40:                 </tr>
41:               )))
42:             </tbody>
43:           </table>
44:         </div>
45:       )
46:     </section>
47:   );
48: }
```

■ File: src\components\ClaimsTable.js

```
=====
1: import React from "react";
2:
3: export default function ClaimsTable({ claims }) {
4:   return (
5:     <div className="overflow-x-auto rounded-xl border border-gray-200">
6:       <table className="min-w-full table-fixed">
7:         <thead>
8:           <tr className="bg-gray-100 text-left text-sm font-semibold text-gray-700">
9:             <th className="w-1/3 px-4 py-3">ITEM</th>
10:            <th className="w-1/3 px-4 py-3">LOCATION</th>
11:            <th className="w-1/3 px-4 py-3">CLAIMED AT</th>
12:           </tr>
13:         </thead>
14:         <tbody>
15:           {claims.length === 0 ? (
16:             <tr>
17:               <td colSpan={3} className="text-center py-4 text-gray-500">
18:                 No claims yet.
19:               </td>
20:             </tr>
21:           ) : (
22:             claims.map((claim, idx) => (
23:               <tr
24:                 key={idx}
25:                 className="border-t text-sm text-gray-800 hover:bg-gray-50 transition">
26:                 >
27:                   <td className="px-4 py-3 font-medium break-words">
28:                     {claim.item_name}
29:                   </td>
30:                   <td className="px-4 py-3 break-words">{claim.location}</td>
31:                   <td className="px-4 py-3 text-sm text-gray-600">
32:                     {new Date(claim.claimed_at).toUTCString()}
33:                   </td>
34:                 </tr>
35:               )));
36:             ))}
37:           </tbody>
38:         </table>
39:       </div>
40:     );
41: }
```

■ File: src\components\FeedbackForm.js

```
=====
1: import { useState } from "react";
2: import toast from "react-hot-toast";
3:
4: export default function FeedbackForm() {
5:   const [text, setText] = useState("");
6:   const [loading, setLoading] = useState(false);
7:
8:   const handleSubmit = async (e) => {
9:     e.preventDefault();
10:    if (!text.trim()) return;
11:
12:    setLoading(true);
13:
14:    try {
15:      const res = await fetch("/submit_feedback", {
16:        method: "POST",
17:        headers: { "Content-Type": "application/json" },
18:        credentials: "include",
19:        body: JSON.stringify({ feedback: text.trim() }),
20:      });
21:
22:      if (res.ok) {
23:        setText("");
24:        toast.success("Thank you for your feedback!");
25:      } else {
```

```

26:         toast.error("Error submitting feedback.");
27:     }
28:   } catch (err) {
29:     toast.error("Network error. Please try again.");
30:   } finally {
31:     setLoading(false);
32:   }
33: };
34:
35: return (
36:   <form onSubmit={handleSubmit} className="space-y-4">
37:     <textarea
38:       className="w-full px-4 py-2 border border-gray-300 rounded-xl focus:outline-none focus:ring-2 focus:
39:         rows="4"
40:         required
41:         value={text}
42:         onChange={(e) => setText(e.target.value)}
43:         placeholder="Write your feedback...""
44:       />
45:     <div className="flex justify-end">
46:       <button
47:         type="submit"
48:         disabled={loading}
49:         className="bg-green-600 hover:bg-green-700 text-white px-6 py-2 rounded-xl transition disabled:op
50:           >
51:             {loading ? "Submitting..." : "Submit"
52:           </button>
53:         </div>
54:       </form>
55:     );
56:   }

```

■ File: src\components\FlashMessage.js

■ File: src\components\Header.js

```

1: import { Link, useNavigate } from "react-router-dom";
2: import { useEffect, useState } from "react";
3:
4: export default function Header() {
5:   const [user, setUser] = useState(null);
6:   const [loading, setLoading] = useState(true);
7:   const [sidebarOpen, setSidebarOpen] = useState(false);
8:   const navigate = useNavigate();
9:
10:  useEffect(() => {
11:    const fetchUser = async () => {
12:      try {
13:        const res = await fetch("http://localhost:5000/api/user", {
14:          credentials: "include",
15:        });
16:
17:        if (res.ok) {
18:          const data = await res.json();
19:          setUser(data);
20:        } else {
21:          setUser(null);
22:        }
23:      } catch (err) {
24:        console.error("Error fetching user:", err);
25:        setUser(null);
26:      } finally {
27:        setLoading(false);
28:      }
29:    };
30:
31:    fetchUser();
32:  }, []);

```

```

33:
34: const handleLogout = async () => {
35:   try {
36:     await fetch("http://localhost:5000/api/logout", {
37:       method: "POST",
38:       credentials: "include",
39:     });
40:     setUser(null);
41:     navigate("/");
42:   } catch (err) {
43:     console.error("Logout error:", err);
44:   }
45: }
46:
47: if (loading) return null;
48:
49: return (
50:   <>
51:     <header className=" text-gray-800 shadow-md">
52:       <div className="max-w-7xl mx-auto px-4 py-3 flex items-center justify-between">
53:         {/* Logo */}
54:         <Link to={user?.role === "admin" ? "/admin" : "/home"}>
55:           <h1 className="text-2xl font-bold">Lost & Found</h1>
56:         </Link>
57:
58:         {/* Desktop nav */}
59:         <nav className="hidden md:flex items-center gap-6 text-sm">
60:           {/* Home link (always visible) */}
61:           <Link to="/home" className="hover:underline">
62:             Home
63:           </Link>
64:
65:           {user ? (
66:             <>
67:               <Link to="/register-item" className="hover:underline">
68:                 Register Item
69:               </Link>
70:               <Link to="/lost-found-items" className="hover:underline">
71:                 Browse Items
72:               </Link>
73:               {user.role === "admin" && (
74:                 <Link to="/admin" className="hover:underline">
75:                   Admin Dashboard
76:                 </Link>
77:               )}
78:             <button
79:               onClick={handleLogout}
80:               className="bg-white text-blue-600 px-4 py-2 rounded hover:bg-gray-100 transition"
81:             >
82:               Logout
83:             </button>
84:           </>
85:         ) : (
86:           <>
87:             <Link to="/" className="hover:underline">
88:               Login
89:             </Link>
90:             <Link to="/register" className="hover:underline">
91:               Register
92:             </Link>
93:           </>
94:         )
95:       </nav>
96:
97:         {/* Mobile Hamburger */}
98:         <button
99:           className="md:hidden text-white focus:outline-none"
100:           onClick={() => setSidebarOpen(true)}
101:         >
102:           <svg className="w-6 h-6" fill="none" stroke="currentColor">
103:             <path
104:               strokeLinecap="round"
105:               strokeLinejoin="round"

```

```
106:             strokeWidth={2}
107:             d="M4 6h16M4 12h16M4 18h16"
108:         />
109:     </svg>
110:   </button>
111: </div>
112: </header>
113:
114:     /* Sidebar overlay */
115:     {sidebarOpen && (
116:       <div
117:         className="fixed inset-0 bg-opacity-40 z-40"
118:         onClick={() => setSidebarOpen(false)}
119:       ></div>
120:     )})
121:
122:     /* Sidebar */
123:   <div
124:     className={`fixed top-0 left-0 h-full w-64 bg-white shadow-lg z-50 transform transition-transform ${sidebarOpen ? "translate-x-0" : "-translate-x-full"} ${md:hidden}`}
125:   >
126:     <div className="p-4 flex items-center justify-between border-b">
127:       <h2 className="text-lg font-bold text-blue-600">Menu</h2>
128:       <button
129:         className="text-gray-600"
130:         onClick={() => setSidebarOpen(false)}
131:       >
132:         close
133:       </button>
134:     </div>
135:     <div className="flex flex-col gap-4 p-4 text-sm">
136:       {user ? (
137:         <>
138:           <Link to="/register-item" onClick={() => setSidebarOpen(false)}>
139:             Register Item
140:           </Link>
141:           <Link
142:             to="/lost-found-items"
143:             onClick={() => setSidebarOpen(false)}
144:           >
145:             Browse Items
146:           </Link>
147:           {user.role === "admin" && (
148:             <Link to="/admin" onClick={() => setSidebarOpen(false)}>
149:               Admin Dashboard
150:             </Link>
151:           )}
152:         )
153:       <button
154:         onClick={() => {
155:           handleLogout();
156:           setSidebarOpen(false);
157:         }}
158:         className="text-left text-red-600 hover:underline"
159:       >
160:         Logout
161:       </button>
162:     </div>
163:   </>
164:   ) : (
165:     <>
166:       <Link to="/" onClick={() => setSidebarOpen(false)}>
167:         Login
168:           </Link>
169:           <Link to="/register" onClick={() => setSidebarOpen(false)}>
170:             Register
171:           </Link>
172:         </div>
173:       )
174:     </div>
175:   </div>
176: </>
177: );
178: }
```

■ File: src\components\ItemTable.js

```
=====
1: import React from "react";
2:
3: export default function ItemTable({ items }) {
4:   return (
5:     <div className="overflow-x-auto rounded-xl border border-gray-200">
6:       <table className="min-w-full table-fixed">
7:         <thead>
8:           <tr className="bg-gray-100 text-left text-sm font-semibold text-gray-700">
9:             <th className="w-1/4 px-4 py-3">ITEM</th>
10:            <th className="w-1/4 px-4 py-3">STATUS</th>
11:            <th className="w-1/4 px-4 py-3">LOCATION</th>
12:            <th className="w-1/4 px-4 py-3">CREATED AT</th>
13:           </tr>
14:         </thead>
15:         <tbody>
16:           {items.length === 0 ? (
17:             <tr>
18:               <td colSpan={4} className="text-center py-4 text-gray-500">
19:                 No items registered.
20:               </td>
21:             </tr>
22:           ) : (
23:             items.map((item, idx) => (
24:               <tr
25:                 key={idx}
26:                 className="border-t text-sm text-gray-800 hover:bg-gray-50 transition">
27:                 >
28:                   <td className="px-4 py-3 font-medium break-words">
29:                     {item.name}
30:                   </td>
31:                   <td className="px-4 py-3">
32:                     <span
33:                       className={`inline-block px-2 py-1 rounded-full text-xs font-semibold ${(
34:                         item.status === "found"
35:                           ? "bg-green-100 text-green-800"
36:                           : "bg-yellow-100 text-yellow-800"
37:                         )}`}
38:                       >
39:                         {item.status}
40:                       </span>
41:                     </td>
42:                     <td className="px-4 py-3 break-words">{item.location}</td>
43:                     <td className="px-4 py-3 text-sm text-gray-600">
44:                       {new Date(item.created_at).toUTCString()}
45:                     </td>
46:                   </tr>
47:                 ))
48:               )
49:             </tbody>
50:           </table>
51:         </div>
52:       );
53:   }
=====
```

■ File: src\components\MessageList.js

```
=====
1: import { useState } from "react";
2: import toast from "react-hot-toast";
3:
4: export default function MessageList({ messages }) {
5:   const [replies, setReplies] = useState({});
6:   const [sentReplies, setSentReplies] = useState({});
7:
8:   const handleReply = async (msgId, senderId, itemId) => {
9:     const replyText = replies[msgId]?.trim();
10:    if (!replyText) return;
11:
12:    try {
13:      const res = await fetch("http://localhost:5000/api/reply", {
```

```

14:     method: "POST",
15:     credentials: "include",
16:     headers: { "Content-Type": "application/json" },
17:     body: JSON.stringify({
18:       receiver_id: senderId,
19:       item_id: itemId,
20:       message: replyText,
21:     }),
22:   );
23:
24:   if (res.ok) {
25:     toast.success("Reply sent!");
26:
27:     // Store the sent reply
28:     setSentReplies((prev) => ({
29:       ...prev,
30:       [msgId]: [
31:         ...(prev[msgId] || []),
32:         {
33:           text: replyText,
34:           timestamp: new Date().toLocaleString(),
35:         },
36:       ],
37:     }));
38:
39:     // Clear the input
40:     setReplies((prev) => ({ ...prev, [msgId]: "" }));
41:   } else {
42:     const err = await res.json();
43:     toast.error(err?.error || "Failed to send reply.");
44:   }
45: } catch (error) {
46:   console.error("Reply error:", error);
47:   toast.error("Server error while sending reply.");
48: }
49: );
50:
51: if (!messages.length)
52:   return <p className="text-gray-500 text-sm italic">No messages yet.</p>;
53:
54: return (
55:   <div className="space-y-6">
56:     {messages.map((msg) => (
57:       <div
58:         key={msg.id}
59:         className="bg-white border border-gray-200 rounded-2xl p-5 shadow-sm"
60:       >
61:         <div className="mb-2">
62:           <p className="text-sm text-gray-500">
63:             <span className="font-medium text-gray-700">From:</span>{ " " }
64:             {msg.sender_name}
65:           </p>
66:           <p className="text-sm text-gray-500">
67:             <span className="font-medium text-gray-700">Regarding Item:</span>{ " " }
68:             {msg.item_name}
69:           </p>
70:         </div>
71:
72:         <div className="mb-4">
73:           <div className="bg-gray-50 border border-gray-100 rounded-xl p-3 text-gray-800 text-sm leading-4">
74:             {msg.message}
75:           </div>
76:           <div className="text-xs text-gray-400 mt-1">{msg.sent_at}</div>
77:         </div>
78:
79:         {sentReplies[msg.id]?.length > 0 && (
80:           <div className="mb-4 space-y-3">
81:             <div className="text-xs text-gray-500 font-medium uppercase tracking-wide">
82:               Your Replies
83:             </div>
84:             {sentReplies[msg.id].map((reply, index) => (
85:               <div key={index} className="flex justify-end">
86:                 <div className="max-w-xs lg:max-w-md">

```

```
87:             <div className="bg-blue-600 text-white rounded-xl px-4 py-2 text-sm">
88:                 {reply.text}
89:             </div>
90:             <div className="text-xs text-gray-400 mt-1 text-right">
91:                 {reply.timestamp}
92:             </div>
93:         </div>
94:     )}
95:     </div>
96: )
97: )
98:
99: <textarea
100:     placeholder="Write your reply..."
101:     className="w-full border border-gray-300 rounded-xl px-4 py-2 text-sm focus:outline-none focus:ring-blue-300" rows="3"
102:     value={replies[msg.id] || ""}
103:     onChange={(e) =>
104:         setReplies((prev) => ({ ...prev, [msg.id]: e.target.value }))
105:     }
106: }
107: />
108:
109: <div className="text-right mt-3">
110:     <button
111:         className="bg-blue-600 hover:bg-blue-700 text-white text-sm px-4 py-2 rounded-xl transition duration-200 ease-in-out" onClick={() => handleReply(msg.id, msg.sender_id, msg.item_id)}
112:         disabled={!replies[msg.id] ? trim() : false}
113:     >
114:         Send Reply
115:     </button>
116:     </div>
117:     </div>
118:     </div>
119:     </div>
120:     </div>
121: );
122: }
```

■ File: src\index.css

```
1: @tailwind base;
2: @tailwind components;
3: @tailwind utilities;
4:
5:
6:
```

■ File: src\index.js

```
1: import React from 'react';
2: import ReactDOM from 'react-dom/client';
3: import './index.css';
4: import App from './App';
5: import reportWebVitals from './reportWebVitals';
6:
7: const root = ReactDOM.createRoot(document.getElementById('root'));
8: root.render(
9:     <React.StrictMode>
10:         <App />
11:     </React.StrictMode>
12: );
13:
14: // If you want to start measuring performance in your app, pass a function
15: // to log results (for example: reportWebVitals(console.log))
16: // or send to an analytics endpoint. Learn more: https://bit.ly/CRA-vitals
17: reportWebVitals();
```

■ File: src\pages\AdminPage.js

```
=====
1: import { useEffect, useState } from "react";
2: import { useNavigate } from "react-router-dom";
3: import AdminTable from "../components/AdminTable";
4: import toaster, { Toaster } from "react-hot-toast";
5: import Swal from "sweetalert2";
6: import withReactContent from "sweetalert2-react-content";
7:
8: const MySwal = withReactContent(Swal);
9:
10: export default function AdminPage() {
11:   const navigate = useNavigate();
12:   const [loading, setLoading] = useState(true);
13:   const [items, setItems] = useState([]);
14:   const [claims, setClaims] = useState([]);
15:   const [users, setUsers] = useState([]);
16:   const [feedback, setFeedback] = useState([]);
17:
18:   // ? Step 1: Validate Admin Access
19:   const validateAdminAccess = async () => {
20:     try {
21:       const res = await fetch("http://localhost:5000/api/user", {
22:         credentials: "include",
23:       });
24:
25:       if (!res.ok) throw new Error("Not authenticated");
26:
27:       const user = await res.json();
28:       if (!user || user.role !== "admin") {
29:         toaster.error("Access denied. Redirecting...");
30:         navigate("/");
31:         return false;
32:       }
33:       return true;
34:     } catch (err) {
35:       toaster.error("Error validating admin access.");
36:       navigate("/");
37:       return false;
38:     }
39:   };
40:
41:   // ? Step 2: Fetch Admin Dashboard Data
42:   const fetchAdminData = async () => {
43:     try {
44:       const res = await fetch("http://localhost:5000/api/admin/dashboard", {
45:         credentials: "include",
46:       });
47:
48:       if (!res.ok) throw new Error("Failed to load dashboard");
49:
50:       const data = await res.json();
51:       setItems(data.items || []);
52:       setClaims(data.claims || []);
53:       setUsers(data.users || []);
54:       setFeedback(data.feedback || []);
55:     } catch (err) {
56:       toaster.error("Failed to load admin data.");
57:     } finally {
58:       setLoading(false);
59:     }
60:   };
61:
62:   useEffect(() => {
63:     const init = async () => {
64:       const isAdmin = await validateAdminAccess();
65:       if (isAdmin) await fetchAdminData();
66:     };
67:     init();
68:   }, []);
69:
70:   // ?? Step 3: Delete Handler with Confirmation
71:   const handleDelete = async (type, id) => {
```

```

72:     const confirmed = await MySwal.fire({
73:       title: `Delete this ${type}?`,
74:       text: `This action cannot be undone.`,
75:       icon: "warning",
76:       showCancelButton: true,
77:       confirmButtonColor: "#d33",
78:       cancelButtonColor: "#3085d6",
79:       confirmButtonText: "Yes, delete it!",
80:     });
81:
82:     if (!confirmed.isConfirmed) return;
83:
84:     let url;
85:     if (type === "feedback") {
86:       url = `http://localhost:5000/api/admin/feedback/${id}`;
87:     } else {
88:       url = `http://localhost:5000/api/admin/${type}s/${id}`;
89:     }
90:
91:     try {
92:       const res = await fetch(url, {
93:         method: "DELETE",
94:         credentials: "include",
95:       });
96:
97:       if (res.ok) {
98:         toast.success(
99:           `${type.charAt(0).toUpperCase() + type.slice(1)} deleted.`);
100:      );
101:      await fetchAdminData();
102:    } else {
103:      const data = await res.json();
104:      toast.error(data?.error || `Failed to delete ${type}.`);
105:    }
106:  } catch (err) {
107:    toast.error(`Error deleting ${type}.`);
108:  }
109: }
110:
111: // ? Step 4: Show loader while validating
112: if (loading) {
113:   return (
114:     <div className="min-h-screen flex items-center justify-center text-gray-500">
115:       Verifying admin access...
116:     </div>
117:   );
118: }
119:
120: // ? Step 5: Render Admin Dashboard
121: return (
122:   <div className="max-w-7xl mx-auto px-6 py-8 space-y-8">
123:     <Toaster position="top-center w-half" />
124:
125:     <h1 className="text-2xl font-bold text-center text-blue-600 mb-4">
126:       Admin Dashboard
127:     </h1>
128:
129:     {/* Items Table */}
130:     <AdminTable
131:       title="Registered Items"
132:       type="item"
133:       data={items}
134:       headers={[ "Name", "Location", "Status", "Actions" ]}
135:       rowRenderer={(item) => [
136:         item.name,
137:         item.location,
138:         item.status,
139:         <button
140:           onClick={() => handleDelete("item", item.id)}
141:           className="text-red-600 hover:underline text-sm"
142:         >
143:           Delete
144:         </button>,

```

```

145:           ]}
146:         />
147:
148:         {/* Claims Table */}
149:         <AdminTable
150:           title="Claims"
151:           type="claim"
152:           data={claims}
153:           headers={["Item", "Claimer", "Location", "Actions"]}
154:           rowRenderer={(claim) => [
155:             claim.item_name,
156:             claim.claimer_name || claim.claimed_by,
157:             claim.location,
158:             <button
159:               onClick={() => handleDelete("claim", claim.id)}
160:               className="text-red-600 hover:underline text-sm"
161:             >
162:               Delete
163:             </button>,
164:           ]}
165:         />
166:
167:         {/* Users Table */}
168:         <AdminTable
169:           title="Users"
170:           type="user"
171:           data={users}
172:           headers={["Name", "Email", "Role", "Actions"]}
173:           rowRenderer={(user) => [
174:             user.name,
175:             user.email,
176:             user.role || "user",
177:             <button
178:               onClick={() => handleDelete("user", user.id)}
179:               className="text-red-600 hover:underline text-sm"
180:             >
181:               Delete
182:             </button>,
183:           ]}
184:         />
185:
186:         {/* Feedback Table */}
187:         <AdminTable
188:           title="Feedback"
189:           type="feedback"
190:           data={feedback}
191:           headers={["User", "Message", "Actions"]}
192:           rowRenderer={(fb) => [
193:             fb.user_name || "Anonymous",
194:             fb.feedback_text,
195:             <button
196:               onClick={() => handleDelete("feedback", fb.id)}
197:               className="text-red-600 hover:underline text-sm"
198:             >
199:               Delete
200:             </button>,
201:           ]}
202:         />
203:       </div>
204:     );
205:   }

```

■ File: src\pages\HomePage.js

```

1: import { useEffect, useState } from "react";
2: import { useNavigate } from "react-router-dom";
3: import ItemTable from "../components/ItemTable";
4: import MessageList from "../components/MessageList";
5: import ClaimsTable from "../components/ClaimsTable";
6:
7: export default function HomePage() {

```

```
8:  const navigate = useNavigate();
9:  const [name, setName] = useState("");
10: const [role, setRole] = useState("");
11: const [items, setItems] = useState([]);
12: const [claims, setClaims] = useState([]);
13: const [messages, setMessages] = useState([]);
14: const [loading, setLoading] = useState(true);
15:
16: const [feedbackText, setFeedbackText] = useState("");
17: const [feedbackMessage, setFeedbackMessage] = useState("");
18:
19: useEffect(() => {
20:   const fetchHomeData = async () => {
21:     try {
22:       const res = await fetch("http://localhost:5000/api/dashboard", {
23:         method: "GET",
24:         credentials: "include",
25:       });
26:
27:       if (!res.ok) {
28:         navigate("/");
29:         return;
30:       }
31:
32:       const data = await res.json();
33:
34:       setName(data.user.name);
35:       setRole(data.user.role);
36:       setItems(data.items || []);
37:       setClaims(data.claims || []);
38:       setMessages(data.messages || []);
39:     } catch (err) {
40:       console.error("Failed to fetch dashboard:", err);
41:       navigate("/");
42:     } finally {
43:       setLoading(false);
44:     }
45:   };
46:
47:   fetchHomeData();
48: }, [navigate]);
49:
50: const handleFeedbackSubmit = async (e) => {
51:   e.preventDefault();
52:   if (!feedbackText.trim()) return;
53:
54:   try {
55:     const res = await fetch("http://localhost:5000/api/feedback", {
56:       method: "POST",
57:       credentials: "include",
58:       headers: {
59:         "Content-Type": "application/json",
60:       },
61:       body: JSON.stringify({ feedback: feedbackText.trim() }),
62:     });
63:
64:     if (res.ok) {
65:       const data = await res.json();
66:       setFeedbackMessage(data.message || "Thank you for your feedback!");
67:       setFeedbackText("");
68:     } else {
69:       const err = await res.json();
70:       setFeedbackMessage(err.error || "Failed to submit feedback.");
71:     }
72:   } catch (err) {
73:     console.error(err);
74:     setFeedbackMessage("Something went wrong while submitting feedback.");
75:   }
76: }
77:
78: if (loading) {
79:   return (
80:     <div className="min-h-screen flex items-center justify-center text-gray-600">
```

```

81:         Loading your dashboard...
82:     </div>
83:   );
84: }
85:
86: return (
87:   <div className="p-6 max-w-6xl mx-auto space-y-10">
88:     <div className="text-center">
89:       <h1 className="text-3xl font-bold text-gray-800">Welcome, {name}</h1>
90:       <p className="text-sm text-gray-500 mt-1">
91:         Here's an overview of your account and activity.
92:       </p>
93:     </div>
94:
95:     <section className="bg-white p-6 rounded-2xl shadow-sm border">
96:       <h2 className="text-xl font-semibold text-gray-700 mb-4 border-b pb-2">My Registered Items</h2>
97:       <ItemTable items={items} />
98:     </section>
99:
100:    <section className="bg-white p-6 rounded-2xl shadow-sm border">
101:      <h2 className="text-xl font-semibold text-gray-700 mb-4 border-b pb-2">My Claims</h2>
102:      <ClaimsTable claims={claims} />
103:    </section>
104:
105:    <section className="bg-white p-6 rounded-2xl shadow-sm border">
106:      <h2 className="text-xl font-semibold text-gray-700 mb-4 border-b pb-2">Messages</h2>
107:      <MessageList messages={messages} />
108:    </section>
109:
110:   {role !== "admin" && (
111:     <section className="bg-white p-6 rounded-2xl shadow-sm border">
112:       <h2 className="text-xl font-semibold text-gray-700 mb-4 border-b pb-2">Platform Feedback</h2>
113:       <form onSubmit={handleFeedbackSubmit} className="space-y-4">
114:         <textarea
115:           rows={4}
116:           className="w-full px-4 py-3 border border-gray-300 rounded-xl focus:outline-none focus:ring-2
117:           placeholder="Write your feedback here...""
118:           value={feedbackText}
119:           onChange={(e) => setFeedbackText(e.target.value)}
120:           required
121:         />
122:         <div className="flex justify-end">
123:           <button
124:             type="submit"
125:             className="bg-blue-600 text-white px-6 py-2 rounded-xl hover:bg-blue-700 transition">
126:             >
127:               Submit Feedback
128:             </button>
129:           </div>
130:         </form>
131:         {feedbackMessage && (
132:           <div className="mt-3 text-sm text-center text-green-600">
133:             {feedbackMessage}
134:           </div>
135:         )}
136:       </section>
137:     )}
138:   </div>
139: )
140: }

```

■ File: src\pages\ItemRegisterPage.js

```

1: import { useState } from "react";
2: import { useNavigate } from "react-router-dom";
3: import { CameraIcon } from "lucide-react";
4: import toast, { Toaster } from "react-hot-toast";
5:
6: export default function RegisterItemPage() {
7:   const navigate = useNavigate();
8:   const [formData, setFormData] = useState({

```

```

9:     name: "",
10:    description: "",
11:    location: "",
12:    status: "lost",
13:  });
14: const [image, setImage] = useState(null);
15: const [previewUrl, setPreviewUrl] = useState(null);
16:
17: const handleChange = (e) => {
18:   setFormData((prev) => ({ ...prev, [e.target.name]: e.target.value }));
19: };
20:
21: const handleFileChange = (e) => {
22:   const file = e.target.files[0];
23:   if (file) {
24:     setImage(file);
25:     setPreviewUrl(URL.createObjectURL(file));
26:   }
27: };
28:
29: const handleSubmit = async (e) => {
30:   e.preventDefault();
31:
32:   if (!image) {
33:     toast.error("Please select an image file.");
34:     return;
35:   }
36:
37:   const data = new FormData();
38:   Object.entries(formData).forEach(([key, val]) => data.append(key, val));
39:   data.append("image", image);
40:
41:   try {
42:     const res = await fetch("http://localhost:5000/api/items", {
43:       method: "POST",
44:       body: data,
45:       credentials: "include",
46:     });
47:
48:     if (res.ok) {
49:       toast.success("Item registered successfully!");
50:       setTimeout(() => navigate("/lost-found-items"), 2000);
51:     } else {
52:       const err = await res.json();
53:       toast.error(err.error || "Failed to register item.");
54:     }
55:   } catch (err) {
56:     console.error(err);
57:     toast.error("Something went wrong. Please try again.");
58:   }
59: };
60:
61: return (
62:   <div className="max-w-3xl mx-auto px-4 py-10">
63:     {/* Toast container */}
64:     <Toaster position="top-center" reverseOrder={false} />
65:
66:     <div className="bg-white shadow-xl rounded-xl p-8 border">
67:       <div className="text-center mb-6">
68:         <h2 className="text-3xl font-bold text-blue-600 flex justify-center items-center gap-2">
69:           <CameraIcon className="w-6 h-6" />
70:           Register Lost / Found Item
71:         </h2>
72:         <p className="text-sm text-gray-500 mt-1">
73:           Submit the details to help match items with their rightful owners.
74:         </p>
75:       </div>
76:
77:       <form onSubmit={handleSubmit} className="space-y-5">
78:         {/* Item Name */}
79:         <div>
80:           <label className="block text-sm font-medium text-gray-700 mb-1">
81:             Item Name

```

```
82:         </label>
83:         <input
84:             type="text"
85:             name="name"
86:             value={formData.name}
87:             onChange={handleChange}
88:             required
89:             className="w-full border px-4 py-2 rounded focus:ring-2 focus:ring-blue-500 focus:outline-none"
90:             placeholder="e.g., Black Wallet"
91:         />
92:     </div>
93:
94:     {/* Description */}
95:     <div>
96:         <label className="block text-sm font-medium text-gray-700 mb-1">
97:             Description
98:         </label>
99:         <textarea
100:             name="description"
101:             value={formData.description}
102:             onChange={handleChange}
103:             required
104:             rows={4}
105:             className="w-full border px-4 py-2 rounded focus:ring-2 focus:ring-blue-500 focus:outline-none"
106:             placeholder="Provide details like color, size, features...""
107:         />
108:     </div>
109:
110:    {/* Location */}
111:    <div>
112:        <label className="block text-sm font-medium text-gray-700 mb-1">
113:            Location
114:        </label>
115:        <input
116:            type="text"
117:            name="location"
118:            value={formData.location}
119:            onChange={handleChange}
120:            required
121:            className="w-full border px-4 py-2 rounded focus:ring-2 focus:ring-blue-500 focus:outline-none"
122:            placeholder="Where was it found/lost?"
123:        />
124:    </div>
125:
126:    {/* Status */}
127:    <div>
128:        <label className="block text-sm font-medium text-gray-700 mb-1">
129:            Status
130:        </label>
131:        <select
132:            name="status"
133:            value={formData.status}
134:            onChange={handleChange}
135:            className="w-full border px-4 py-2 rounded focus:ring-2 focus:ring-blue-500 focus:outline-none"
136:        >
137:            <option value="lost">Lost</option>
138:            <option value="found">Found</option>
139:        </select>
140:    </div>
141:
142:    {/* Image Upload */}
143:    <div>
144:        <label className="block text-sm font-medium text-gray-700 mb-1">
145:            Upload Image
146:        </label>
147:        <input
148:            type="file"
149:            accept="image/*"
150:            onChange={handleFileChange}
151:            required
152:            className="w-full"
153:        />
154:    </div>
```

```

155:             /* Preview */
156:             {previewUrl && (
157:                 <div className="mt-4">
158:                     <label className="block text-sm font-medium text-gray-700 mb-1">
159:                         Preview
160:                     </label>
161:                     <img
162:                         src={previewUrl}
163:                         alt="Preview"
164:                         className="w-full max-h-[400px] object-contain border rounded shadow"
165:                     />
166:                 </div>
167:             )}
168:
169:             /* Submit Button */
170:             <div>
171:                 <button
172:                     type="submit"
173:                     className="w-full bg-blue-600 hover:bg-blue-700 text-white font-semibold py-2 px-4 rounded tracking-wide"
174:                 >
175:                     Register Item
176:                 </button>
177:             </div>
178:         </div>
179:     </form>
180: </div>
181: </div>
182: );
183: }

```

■ File: src\pages\ItemsPage.js

```

1: import { useEffect, useState } from "react";
2: import toaster, { Toaster } from "react-hot-toast";
3: import dayjs from "dayjs";
4: import customParseFormat from "dayjs/plugin/customParseFormat";
5: import utc from "dayjs/plugin/utc";
6: import timezone from "dayjs/plugin/timezone";
7:
8: dayjs.extend(customParseFormat);
9: dayjs.extend(utc);
10: dayjs.extend(timezone);
11:
12: // ? Fixed date formatter for MySQL datetime format
13: function formatDateIST(mysqlDateStr) {
14:     if (!mysqlDateStr) return "Invalid date";
15:     return dayjs(mysqlDateStr, "YYYY-MM-DD HH:mm:ss").format(
16:         "DD MMM YYYY, hh:mm"
17:     );
18: }
19:
20: // Alternative: Simple local time version (if you want user's timezone)
21: function formatDateLocal(mysqlDateStr) {
22:     if (!mysqlDateStr) return "Invalid date";
23:
24:     let date;
25:     if (typeof mysqlDateStr === "string") {
26:         date = dayjs(mysqlDateStr, "YYYY-MM-DD HH:mm:ss");
27:     } else {
28:         date = dayjs(mysqlDateStr);
29:     }
30:
31:     if (date.isValid()) {
32:         return date.format("DD MMM YYYY, hh:mm A");
33:     }
34:
35:     return `Invalid date: ${mysqlDateStr}`;
36: }
37:
38: export default function ItemsPage() {
39:     const [items, setItems] = useState([]);

```

```

40:  const [search, setSearch] = useState("");
41:  const [filter, setFilter] = useState("all");
42:  const [currentUser, setCurrentUser] = useState(null);
43:
44:  const [showMessageBox, setShowMessageBox] = useState(false);
45:  const [showClaimModal, setShowClaimModal] = useState(false);
46:  const [ currentItem, setCurrentItem] = useState(null);
47:  const [messageText, setMessageText] = useState("");
48:
49:  useEffect(() => {
50:    fetchUser();
51:    fetchItems();
52:  }, []);
53:
54:  useEffect(() => {
55:    const interval = setInterval(() => {
56:      fetchItems();
57:    }, 60000);
58:    return () => clearInterval(interval);
59:  }, []);
60:
61:  const fetchUser = async () => {
62:    try {
63:      const res = await fetch("http://localhost:5000/api/user", {
64:        credentials: "include",
65:      });
66:      if (res.ok) {
67:        const data = await res.json();
68:        setCurrentUser(data);
69:      }
70:    } catch (err) {
71:      console.error("Failed to fetch user");
72:    }
73:  };
74:
75:  const fetchItems = async () => {
76:    try {
77:      const res = await fetch("http://localhost:5000/api/items", {
78:        credentials: "include",
79:      });
80:      if (!res.ok) throw new Error("Failed to fetch items");
81:      const data = await res.json();
82:      setItems(data.items || []);
83:    } catch (err) {
84:      console.error(err);
85:    }
86:  };
87:
88:  const handleClaim = async (itemId) => {
89:    try {
90:      const res = await fetch(
91:        `http://localhost:5000/api/items/${itemId}/claim`,
92:        {
93:          method: "POST",
94:          credentials: "include",
95:        }
96:      );
97:      if (res.ok) {
98:        toast.success("Item claimed successfully!");
99:        fetchItems();
100:     } else {
101:       const data = await res.json();
102:       toast.error(` ${data.error} | Failed to claim item.`);
103:     }
104:   } catch (err) {
105:     console.error("Claim failed", err);
106:     toast.error("Something went wrong.");
107:   }
108: };
109:
110: const handleSendMessage = async () => {
111:   if (!currentItem || !messageText.trim()) return;
112:

```

```

113:     try {
114:       const res = await fetch("http://localhost:5000/api/messages", {
115:         method: "POST",
116:         headers: { "Content-Type": "application/json" },
117:         credentials: "include",
118:         body: JSON.stringify({
119:           receiver_id: currentItem.created_by,
120:           item_id: currentItem.id,
121:           message: messageText.trim(),
122:         }),
123:       });
124:
125:       if (res.ok) {
126:         toast.success("Message sent!");
127:       } else {
128:         const err = await res.json();
129:         toast.error(`#${err.error} || Failed to send message.`);
130:       }
131:     } catch (err) {
132:       console.error("Message failed", err);
133:       toast.error("Something went wrong.");
134:     } finally {
135:       setShowMessageBox(false);
136:       setMessageText("");
137:       setCurrentItem(null);
138:     }
139:   };
140:
141:   const filteredItems = items.filter((item) => {
142:     const searchText = search.toLowerCase();
143:     const matchesSearch =
144:       item.name.toLowerCase().includes(searchText) ||
145:       item.location.toLowerCase().includes(searchText) ||
146:       item.description.toLowerCase().includes(searchText);
147:     const matchesFilter =
148:       filter === "all" ? true : item.status.toLowerCase() === filter;
149:     return matchesSearch && matchesFilter;
150:   });
151:
152:   return (
153:     <div className="max-w-6xl mx-auto p-6 space-y-6">
154:       <Toaster position="top-center" reverseOrder={false} />
155:       <h1 className="text-2xl font-bold text-blue-600 text-center">
156:         Lost and Found Items
157:       </h1>
158:
159:       <div className="flex flex-col sm:flex-row gap-4 justify-between items-center mt-4">
160:         <input
161:           type="text"
162:           placeholder="Search by name, location, or description..."
163:           className="w-full px-4 py-2 border rounded"
164:           value={search}
165:           onChange={(e) => setSearch(e.target.value)}
166:         />
167:         <select
168:           value={filter}
169:           onChange={(e) => setFilter(e.target.value)}
170:           className="px-4 py-2 border rounded"
171:         >
172:           <option value="all">All</option>
173:           <option value="lost">Lost</option>
174:           <option value="found">Found</option>
175:           <option value="claimed">Claimed</option>
176:         </select>
177:       </div>
178:
179:       <div className="grid gap-6 grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 mt-4">
180:         {filteredItems.map((item) => (
181:           <div
182:             key={item.id}
183:             className="border rounded-lg overflow-hidden shadow bg-white flex flex-col"
184:           >
185:             {item.image && (

```

```

186:         <img
187:           src={`${http://localhost:5000/static/${item.image}`}
188:             alt={item.name}
189:             className="w-full h-48 object-cover"
190:           />
191:         )
192:       <div className="p-4 space-y-2 flex-1 flex flex-col justify-between">
193:         <div>
194:           <h2 className="text-lg font-semibold">{item.name}</h2>
195:           <p className="text-sm text-gray-500">{item.location}</p>
196:           <p className="text-sm">{item.description}</p>
197:         </div>
198:
199:         <div className="text-xs text-gray-500 mt-1">
200:           <p>
201:             Posted by: <strong>{item.creator_name}</strong>
202:           </p>
203:           {/* <p>
204:             On: <span>{formatDateIST(item.created_at)}</span>
205:           </p> */}
206:           {/* Debug info - remove this after fixing */}
207:           <p className="text-black-500 text-xs">
208:             Posted on: {JSON.stringify(item.created_at)}
209:           </p>
210:         </div>
211:
212:         <div className="mt-2">
213:           <span
214:             className={`inline-block text-xs px-2 py-1 rounded ${{
215:               item.status === "found"
216:                 ? "bg-green-100 text-green-700"
217:                 : item.status === "lost"
218:                 ? "bg-yellow-100 text-yellow-700"
219:                 : "bg-blue-100 text-blue-700"
220:               }}`}
221:             >
222:               {item.status.toUpperCase()}
223:             </span>
224:           </div>
225:
226:           <div className="mt-3 flex gap-2">
227:             {item.status === "claimed" ? (
228:               <p className="text-sm text-red-700 mt-1">
229:                 This item has been claimed
230:               </p>
231:             ) : currentUser && item.created_by === currentUser.id ? (
232:               <p className="text-sm text-gray-700 italic">
233:                 You posted this item
234:               </p>
235:             ) : item.status === "found" ? (
236:               <>
237:                 <button
238:                   onClick={() => {
239:                     setCurrentItem(item);
240:                     setShowClaimModal(true);
241:                   }}
242:                   className="w-full text-sm bg-blue-600 text-white py-1.5 rounded hover:bg-blue-700"
243:                 >
244:                   Claim Item
245:                 </button>
246:                 <button
247:                   onClick={() => {
248:                     setCurrentItem(item);
249:                     setShowMessageBox(true);
250:                   }}
251:                   className="w-full text-sm border border-gray-700 text-gray-800 py-1.5 rounded hover:bo
252:                 >
253:                   <i className="fas fa-comment mr-1"></i> Message
254:                 </button>
255:               </>
256:             ) : item.status === "lost" ? (
257:               <button
258:                 onClick={() => {

```

```
259:             setCurrentItem(item);
260:             setShowMessageBox(true);
261:         }
262:         className="w-full text-sm border border-gray-700 text-gray-800 py-1.5 rounded hover:bg-gray-100">
263:     >
264:         <i className="fas fa-comment mr-1"></i> Message
265:     </button>
266:     ) : null}
267:   </div>
268: </div>
269: </div>
270: })
271: </div>
272:
273: {filteredItems.length === 0 && (
274:   <p className="text-center text-gray-500 mt-10">No items found.</p>
275: )
276:
277: {showMessageBox && currentItem && (
278:   <div className="fixed inset-0 bg-black bg-opacity-40 px-1 flex items-center justify-center z-50">
279:     <div className="bg-white p-6 rounded shadow w-full max-w-md space-y-4">
280:       <h3 className="text-lg font-bold text-blue-600">Send Message</h3>
281:       <p className="text-sm text-gray-600">
282:         To: <strong>{currentItem.creator_name}</strong> <br />
283:         Item: <strong>{currentItem.name}</strong>
284:       </p>
285:       <textarea
286:         rows={4}
287:         className="w-full border rounded px-3 py-2"
288:         placeholder="Type your message..."'
289:         value={messageText}
290:         onChange={(e) => setMessageText(e.target.value)}
291:       />
292:       <div className="flex justify-end gap-2">
293:         <button
294:           onClick={() => setShowMessageBox(false)}
295:           className="text-sm px-4 py-1 bg-gray-300 rounded hover:bg-gray-400"
296:         >
297:           Cancel
298:         </button>
299:         <button
300:           onClick={handleSendMessage}
301:           className="text-sm px-4 py-1 bg-blue-600 text-white rounded hover:bg-blue-700"
302:         >
303:           Send
304:         </button>
305:       </div>
306:     </div>
307:   </div>
308: )
309:
310: {showClaimModal && currentItem && (
311:   <div className="fixed inset-0 bg-black bg-opacity-40 flex items-center justify-center z-50">
312:     <div className="bg-white p-6 rounded shadow w-full max-w-md space-y-4">
313:       <div className="flex justify-between items-center">
314:         <h3 className="text-lg font-bold text-blue-600">
315:           Claim Item: {currentItem.name}
316:         </h3>
317:       </div>
318:       <p className="text-sm text-gray-600">
319:         Your registered name and email will be used for this claim.
320:       </p>
321:       <div className="flex justify-end gap-2">
322:         <button
323:           onClick={() => setShowClaimModal(false)}
324:           className="text-sm px-4 py-1 border rounded"
325:         >
326:           Cancel
327:         </button>
328:         <button
329:           onClick={() => {
330:             handleClaim(currentItem.id);
331:             setShowClaimModal(false);
332:           }
333:         }
334:       </div>
335:     </div>
336:   </div>
337: )}
```

```

332:         > }
333:         className="text-sm px-4 py-1 bg-blue-600 text-white rounded hover:bg-blue-700"
334:         >
335:             Confirm Claim
336:             </button>
337:         </div>
338:     </div>
339:     </div>
340:     )
341:   </div>
342: );
343: }

```

■ File: src\pages\LoginPage.js

```

1: import { useState } from "react";
2: import { useNavigate } from "react-router-dom";
3:
4: export default function LoginPage() {
5:   const navigate = useNavigate();
6:   const [email, setEmail] = useState("");
7:   const [password, setPassword] = useState("");
8:   const [error, setError] = useState("");
9:
10:  const handleLogin = async (e) => {
11:    e.preventDefault();
12:    setError("");
13:
14:    try {
15:      const res = await fetch("http://localhost:5000/api/login", {
16:        method: "POST",
17:        headers: {
18:          "Content-Type": "application/json",
19:        },
20:        credentials: "include",
21:        body: JSON.stringify({ email, password }),
22:      });
23:
24:      const data = await res.json();
25:
26:      if (!res.ok || !data.success) {
27:        setError(data.error || "Invalid email or password.");
28:        return;
29:      }
30:
31:      // ? Redirect based on user role
32:      if (data.user?.role === "admin") {
33:        navigate("/admin");
34:      } else {
35:        navigate("/home");
36:      }
37:    } catch (err) {
38:      console.error("Login error:", err);
39:      setError("Login failed. Please try again.");
40:    }
41:  };
42:
43:  return (
44:    <div className="flex items-center justify-center min-h-screen bg-black-100 text-black-100 px-4">
45:      <div className="bg-white p-8 rounded-lg shadow-md w-full max-w-md">
46:        <h2 className="text-2xl font-bold text-center text-blue-600 mb-6">
47:          Login
48:        </h2>
49:
50:        {error && (
51:          <div className="bg-red-100 text-red-700 px-3 py-2 mb-4 rounded text-sm text-center">
52:            {error}
53:          </div>
54:        )} 
55:      <form onSubmit={handleLogin} className="space-y-4">

```

```

57:         <input
58:             type="email"
59:             placeholder="Email"
60:             className="w-full px-4 py-2 border rounded-md"
61:             value={email}
62:             onChange={(e) => setEmail(e.target.value)}
63:             required
64:         />
65:         <input
66:             type="password"
67:             placeholder="Password"
68:             className="w-full px-4 py-2 border rounded-md"
69:             value={password}
70:             onChange={(e) => setPassword(e.target.value)}
71:             required
72:         />
73:         <button
74:             type="submit"
75:             className="w-full bg-blue-600 text-white py-2 rounded hover:bg-blue-700 transition"
76:         >
77:             Login
78:         </button>
79:     </form>
80:   </div>
81: </div>
82: );
83: }
-----
```

■ File: src\pages\RegisterPage.js

```

1: import { useState } from "react";
2: import { useNavigate } from "react-router-dom";
3:
4: export default function RegisterPage() {
5:   const navigate = useNavigate();
6:   const [formData, setFormData] = useState({
7:     name: "",
8:     email: "",
9:     password: "",
10:    confirmPassword: ""
11:  });
12:  const [error, setError] = useState("");
13:  const [success, setSuccess] = useState("");
14:
15:  const handleChange = (e) => {
16:    setFormData((prev) => ({
17:      ...prev,
18:      [e.target.name]: e.target.value,
19:    }));
20:  };
21:
22:  const handleSubmit = async (e) => {
23:    e.preventDefault();
24:    setError("");
25:    setSuccess("");
26:
27:    if (formData.password !== formData.confirm_password) {
28:      setError("Passwords do not match.");
29:      return;
30:    }
31:
32:    try {
33:      const res = await fetch("http://localhost:5000/api/register", {
34:        method: "POST",
35:        headers: {
36:          "Content-Type": "application/json",
37:        },
38:        credentials: "include",
39:        body: JSON.stringify(formData),
40:      });
41:    }

```

```

42:     const data = await res.json();
43:
44:     if (!res.ok || !data.success) {
45:         setError(data.error || "Registration failed.");
46:         return;
47:     }
48:
49:     setSuccess("Registration successful! Redirecting to login...");
50:     setTimeout(() => navigate("/"), 2000);
51: } catch (err) {
52:     console.error("Registration error:", err);
53:     setError("Something went wrong. Please try again.");
54: }
55: };
56:
57: return (
58:     <div className="min-h-screen flex items-center justify-center bg-gray-100 px-4">
59:         <div className="bg-white p-8 rounded-lg shadow-md w-full max-w-md">
60:             <h2 className="text-2xl font-bold text-center text-blue-600 mb-6">
61:                 Create Account
62:             </h2>
63:
64:             {error && (
65:                 <div className="bg-red-100 text-red-700 p-2 rounded text-sm mb-4">
66:                     {error}
67:                 </div>
68:             )}
69:
70:             {success && (
71:                 <div className="bg-green-100 text-green-700 p-2 rounded text-sm mb-4">
72:                     {success}
73:                 </div>
74:             )}
75:
76:         <form onSubmit={handleSubmit} className="space-y-4">
77:             <input
78:                 type="text"
79:                 name="name"
80:                 placeholder="Full Name"
81:                 className="w-full px-4 py-2 border rounded"
82:                 onChange={handleChange}
83:                 value={formData.name}
84:                 required
85:             />
86:             <input
87:                 type="email"
88:                 name="email"
89:                 placeholder="Email"
90:                 className="w-full px-4 py-2 border rounded"
91:                 onChange={handleChange}
92:                 value={formData.email}
93:                 required
94:             />
95:             <input
96:                 type="password"
97:                 name="password"
98:                 placeholder="Password"
99:                 className="w-full px-4 py-2 border rounded"
100:                onChange={handleChange}
101:                value={formData.password}
102:                required
103:            />
104:            <input
105:                 type="password"
106:                 name="confirm_password"
107:                 placeholder="Confirm Password"
108:                 className="w-full px-4 py-2 border rounded"
109:                 onChange={handleChange}
110:                 value={formData.confirm_password}
111:                 required
112:            />
113:            <button
114:                 type="submit"

```

```
115:         className="w-full bg-blue-600 text-white py-2 rounded hover:bg-blue-700 transition"
116:       >
117:         Register
118:       </button>
119:     </form>
120:   </div>
121: </div>
122: );
123: }
```

■ File: src\reportWebVitals.js

```
1: const reportWebVitals = onPerfEntry => {
2:   if (onPerfEntry && onPerfEntry instanceof Function) {
3:     import('web-vitals').then(({ getCLS, getFID, getFCP, getLCP, getTTFB }) => {
4:       getCLS(onPerfEntry);
5:       getFID(onPerfEntry);
6:       getFCP(onPerfEntry);
7:       getLCP(onPerfEntry);
8:       getTTFB(onPerfEntry);
9:     });
10:   }
11: };
12:
13: export default reportWebVitals;
```

■ File: src\setupTests.js

```
1: // jest-dom adds custom jest matchers for asserting on DOM nodes.
2: // allows you to do things like:
3: // expect(element).toHaveTextContent(/react/i)
4: // learn more: https://github.com/testing-library/jest-dom
5: import '@testing-library/jest-dom';
```

■ File: tailwind.config.js

```
1: /** @type {import('tailwindcss').Config} */
2: module.exports = {
3:   content: [
4:     "./src/**/*.{js,jsx,ts,tsx}", // very important for React
5:   ],
6:   theme: {
7:     extend: {},
8:   },
9:   plugins: [],
10: };
```
