rAI End-to-End Audit Checklist

Verify All Intelligence Touchpoints Are Connected

Date: January 17, 2026
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AUDIT OVERVIEW

Journey Stage	rAI Touchpoint	Expected Behavior
Assessment Complete	Gemini Analysis → Email	Parent receives analysis in certificate email
Assessment Results	Results Page Display	rAI analysis shown on results page
Discovery Call	AI Questions Generated	Coach sees probing questions based on assessment
Session Processing	Recall.ai → Gemini	Transcript analyzed, parent_summary generated
Post-Session	WhatsApp to Parent	Auto-send session summary
Parent Dashboard	rAI Chat Widget	Parent can ask about child progress
Coach Dashboard	rAI Chat Widget	Coach can ask about students + pedagogy
Admin Dashboard	rAI Chat Widget	Admin can ask platform-wide questions
At-Risk Detection	Smart Triggers	Alerts sent for safety/struggle/progress issues

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AUDIT 1: ASSESSMENT → rAI ANALYSIS

Test Steps

#	Action	Expected Result	Status
1.1	Go to https://www.yestoryd.com/assessment	Assessment page loads	🔲
1.2	Complete a test assessment	Recording submits successfully	🔲
1.3	Wait for analysis	Loading indicator, then results	🔲
1.4	Check results page	Score + rAI analysis displayed	🔲
1.5	Check email inbox	Certificate with Gemini analysis received	🔲

#	Action	Expected Result	Status
1.6	Check `learning_events` table	New record with `event_type: 'assessment'`	🟪
1.7	Check embedding exists	`embedding` column is NOT NULL	🟪

Database Verification

```sql
sql

-- Check latest assessment has embedding
SELECT
  id,
  child_id,
  event_type,
  event_date,
  CASE WHEN embedding IS NULL THEN '❌ MISSING' ELSE '✅ EXISTS' END as embedding_status,
  LEFT(event_data::text, 100) as data_preview
FROM learning_events
WHERE event_type = 'assessment'
ORDER BY created_at DESC
LIMIT 3;
```

Pass Criteria

- ☐ Results page shows score breakdown
- ☐ Results page shows rAI analysis section
- ☐ Email contains personalized feedback (not generic)
- ☐ `learning_events` has embedding for semantic search

AUDIT 2: DISCOVERY CALL → AI QUESTIONS

Test Steps

#	Action	Expected Result	Status
2.1	Go to https://www.yestoryd.com/coach/discovery-calls	List of calls loads	🟪
2.2	Click on a discovery call with assessment data	Detail page opens	🟪
2.3	Check "AI Questions" tab	Questions generated based on assessment	🟪
2.4	Verify question relevance	Questions reference score/age/specific gaps	🟪

What to Look For in AI Questions

Question Type	Example	Should See?
Baseline	"Tell me about [child]'s reading habits at home"	✅ Always
Assessment-based (low score)	"The assessment showed struggles with fluency..."	✅ If score < 6
Assessment-based (high score)	"Great score! What reading challenges do you still see?"	✅ If score ≥ 7
Age-based (young)	"At age 5, phonics foundation is crucial..."	✅ If age < 7
Age-based (older)	"At age 10, comprehension becomes key..."	✅ If age > 9

Pass Criteria

☐ AI Questions tab is populated (not empty)

☐ Questions are personalized to the specific child

☐ Questions reference assessment score if available

☐ Questions are age-appropriate

AUDIT 3: SESSION PROCESSING → RECALL.AI → GEMINI

Test Steps

#	Action	Expected Result	Status
3.1	Find a completed session with recording	Session has `recall_bot_id`	🟪
3.2	Check `scheduled_sessions` for AI fields	`ai_summary`, `parent_summary` populated	🟪
3.3	Check `learning_events` for session	Event with `event_type: 'session_analysis'`	🟪
3.4	Check embedding exists	Session event has embedding	🟪

Database Verification

sql

```sql
-- Check session analysis pipeline
SELECT
  ss.id,
  ss.child_id,
  c.child_name,
  ss.scheduled_date,
  ss.status,
  CASE WHEN ss.ai_summary IS NULL THEN '❌' ELSE '✅' END as ai_summary,
  CASE WHEN ss.parent_summary IS NULL THEN '❌' ELSE '✅' END as parent_summary,
  ss.recall_bot_id,
  ss.recall_status
FROM scheduled_sessions ss
JOIN children c ON c.id = ss.child_id
WHERE ss.status = 'completed'
ORDER BY ss.scheduled_date DESC
LIMIT 5;
```

```sql
sql

-- Check learning_events for session data
SELECT
  le.id,
  le.child_id,
  le.event_type,
  le.event_date,
  CASE WHEN le.embedding IS NULL THEN '❌ NO EMBED' ELSE '✅ HAS EMBED' END as embedding,
  LEFT(le.event_data::text, 150) as data_preview
FROM learning_events le
WHERE le.event_type IN ('session_analysis', 'coaching_session', 'session_complete')
ORDER BY le.created_at DESC
LIMIT 5;
```

Pass Criteria

- [ ] Completed sessions have ai_summary populated
- [ ] Completed sessions have parent_summary populated
- [ ] learning_events has corresponding session records
- [ ] Session events have embeddings for RAG

AUDIT 4: POST-SESSION → PARENT WHATSAPP

Test Steps

#	Action	Expected Result	Status
4.1	Check a completed session	Session marked as completed	🟪
4.2	Check parent's WhatsApp	Received session summary message	🟪
4.3	Check (notifications) table (if exists)	Record of sent notification	🟪

Database Verification

```sql
sql

-- Check if notifications are being logged
SELECT * FROM information_schema.tables
WHERE table_name IN ('notifications', 'notification_logs', 'communication_logs');

-- If table exists, check recent notifications
-- SELECT * FROM notifications ORDER BY created_at DESC LIMIT 10;
```

What WhatsApp Should Contain

🌟 Session Update for [Child Name]

📚 What we worked on: [Focus area from ai_summary]
✨ Progress: [Progress rating]
📝 Practice at home: [Homework if assigned]

Next session: [Date/time]

- Coach [Name] 💜

Pass Criteria

☐ Parent receives WhatsApp after session completion

☐ Message contains child's name (personalized)

☐ Message contains session-specific details

☐ Message includes next session info

AUDIT 5: PARENT DASHBOARD → rAI CHAT

Test Steps

#	Action	Expected Result	Status
5.1	Login to parent dashboard	Dashboard loads with child info	▪
5.2	Open rAI chat widget	Chat opens, ready for input	▪
5.3	Ask: "How is my child doing?"	Personalized response about the child	▪
5.4	Ask: "When is my next session?"	Schedule info returned	▪
5.5	Ask: "How can I help with reading at home?"	PEDAGOGY response	▪

Test Queries & Expected Responses

Query	Intent	Expected Response Type
"How is [child] doing?"	LEARNING	Summary of recent progress, sessions
"What did we work on last session?"	LEARNING	Session summary with activities
"When is my next session?"	SCHEDULE	Date, time, coach name, Meet link
"Who is my coach?"	OPERATIONAL	Coach name and basic info
"How do I help with 'th' sounds?"	PEDAGOGY	Teaching tips, activities
"What are your earnings?"	OFF_LIMITS	Polite redirect

Pass Criteria

☐ Chat widget loads and accepts input
☐ LEARNING queries return child-specific data
☐ SCHEDULE queries return accurate session info
☐ PEDAGOGY queries return educational guidance
☐ OFF_LIMITS queries are politely declined

AUDIT 6: COACH DASHBOARD → rAI CHAT

Test Steps

#	Action	Expected Result	Status
6.1	Login to coach dashboard	Dashboard loads	🟪
6.2	Go to AI Assistant page	rAI chat loads	🟪
6.3	Ask: "How many students do I have?"	Count returned	🟪
6.4	Ask: "Prepare me for next session"	Session prep with child context	🟪
6.5	Ask: "How do I teach 'th' sounds?"	PEDAGOGY response	🟪
6.6	Select a specific student, ask about them	Student-specific data	🟪

Test Queries & Expected Responses

Query	Intent	Expected Response Type
"How many students do I have?"	OPERATIONAL	Count of assigned children
"What's my schedule today?"	SCHEDULE	Today's sessions with times
"Prepare me for [child]'s session"	LEARNING	Child history, focus areas, recommendations
"What phonics strategies work for struggling readers?"	PEDAGOGY	Teaching methods with examples
"Show me [child]'s progress"	LEARNING	Assessment history, session summaries

Pass Criteria

☐ Coach can query their own students only (not others)
☐ Session prep includes child's recent history
☐ PEDAGOGY provides actionable teaching guidance
☐ Schedule queries show accurate session info

AUDIT 7: ADMIN DASHBOARD → rAI CHAT

Test Steps

#	Action	Expected Result	Status
7.1	Login to admin dashboard	Dashboard loads	🟪
7.2	Find rAI chat widget	Widget available	🟪
7.3	Ask: "How many enrollments this month?"	Count returned	🟪
7.4	Ask: "Which children are at risk?"	At-risk list if any	🟪
7.5	Ask: "What are common struggle areas?"	Platform-wide insights	🟪

Test Queries & Expected Responses

Query	Intent	Expected Response Type
"How many enrollments this month?"	OPERATIONAL	Count with comparison
"Which children are at risk?"	LEARNING	Children with declining engagement
"What are children struggling with most?"	LEARNING	Common phonics/reading gaps
"What's the conversion rate?"	OFF_LIMITS	Redirect to dashboard

Pass Criteria

☐ Admin can see platform-wide metrics
☐ At-risk detection surfaces flagged children
☐ Financial queries are appropriately redirected

AUDIT 8: AT-RISK DETECTION → PROACTIVE ALERTS

Test Steps

#	Action	Expected Result	Status
8.1	Check scheduled_sessions for flagged sessions	flagged_for_attention = true	🟪
8.2	Check for safety_flag sessions	Safety concerns logged	🟪
8.3	Check for recurring struggles	Same concern across 2+ sessions	🟪

#	Action	Expected Result	Status
8.4	Verify admin received alert	WhatsApp/email for critical flags	🟪

Database Verification

```sql
sql

-- Check for flagged sessions
SELECT
  ss.id,
  c.child_name,
  ss.scheduled_date,
  ss.flagged_for_attention,
  ss.flag_reason,
  ss.safety_flag,
  ss.safety_reason,
  ss.progress_rating,
  ss.concerns_noted
FROM scheduled_sessions ss
JOIN children c ON c.id = ss.child_id
WHERE ss.flagged_for_attention = true
  OR ss.safety_flag = true
  OR ss.progress_rating = 'declined'
ORDER BY ss.scheduled_date DESC
LIMIT 10;
```

Smart Trigger Types

Trigger	Condition	Who Gets Notified
safety	safety_flag = true OR sentiment_score < 0.3	Admin + Coach
recurring_struggle	Same concern in 2+ sessions	Coach
progress_drop	progress_rating = 'declined'	Admin (if 2+ consecutive)
low_engagement	engagement_level = 'low'	Coach
milestone	breakthrough_moment is present	Parent (celebration!)

Pass Criteria

☐ Flagged sessions are tracked in database
☐ Safety flags trigger immediate admin alert
☐ Recurring struggles are detected across sessions

☐ Positive milestones trigger parent celebration message

AUDIT 9: RAG DATA QUALITY

Test Steps

#	Action	Expected Result	Status
9.1	Check total learning_events	Reasonable count	🟪
9.2	Check embedding coverage	>90% have embeddings	🟪
9.3	Test semantic search	Relevant results returned	🟪
9.4	Check HNSW index exists	Index in database	🟪

Database Verification

```sql
-- Check learning_events stats
SELECT
  event_type,
  COUNT(*) as total,
  COUNT(embedding) as with_embedding,
  ROUND(COUNT(embedding)::numeric / COUNT(*) * 100, 1) as coverage_pct
FROM learning_events
GROUP BY event_type
ORDER BY total DESC;
```

```sql
-- Verify HNSW index exists
SELECT indexname, indexdef
FROM pg_indexes
WHERE tablename = 'learning_events'
  AND indexdef LIKE '%hnsw%';
```

```sql

```

```sql
-- Test hybrid search function exists
SELECT routine_name
FROM information_schema.routines
WHERE routine_name LIKE '%match%learning%'
   OR routine_name LIKE '%hybrid%';
```

Pass Criteria

☐ learning_events has data for each enrolled child

☐ >90% of events have embeddings

☐ HNSW index exists and is active

☐ Hybrid search function is available

AUDIT 10: PARENT SESSION CACHE

Test Steps

#	Action	Expected Result	Status
10.1	Check children.last_session_summary	Populated for active children	▨
10.2	Check children.last_session_date	Recent date for active children	▨
10.3	Ask rAI "How did today's session go?"	Should use cache if <24hrs	▨

Database Verification

```
sql
```

```sql
-- Check parent cache freshness
SELECT
  c.id,
  c.child_name,
  c.last_session_summary IS NOT NULL as has_cache,
  c.last_session_date,
  CASE
    WHEN c.last_session_date > NOW() - INTERVAL '24 hours' THEN '✅ FRESH'
    WHEN c.last_session_date IS NOT NULL THEN '⚠️ STALE'
    ELSE '❌ NO DATA'
  END as cache_status
FROM children c
WHERE c.status = 'enrolled'
ORDER BY c.last_session_date DESC NULLS LAST
LIMIT 10;
```

Pass Criteria

☐ Active children have (last_session_summary) populated

☐ Cache is updated after each session

☐ rAI uses cache for recent queries (faster response)

SUMMARY SCORECARD

After completing all audits, fill in:

Audit	Pass/Fail	Critical Issues
1. Assessment → rAI Analysis	☐	
2. Discovery Call → AI Questions	☐	
3. Session Processing → Gemini	☐	
4. Post-Session → Parent WhatsApp	☐	
5. Parent Dashboard → rAI Chat	☐	
6. Coach Dashboard → rAI Chat	☐	
7. Admin Dashboard → rAI Chat	☐	
8. At-Risk Detection	☐	
9. RAG Data Quality	☐	
10. Parent Session Cache	☐	

Overall Status: ___/10 audits passing

NEXT STEPS

Based on audit results:

1. **All Pass** → rAI is fully connected, focus on optimization/expansion
2. **1-3 Failures** → Fix specific broken connections
3. **4+ Failures** → Systematic debugging needed

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