



BUILD YOUR SPECIALIZED AI AGENT TEAM

Five clear roles. One reusable system. Better work without asking one AI to do everything.

01

RESEARCH

02

IDEATION

03

BUILDER

04

TESTING

05

ORCHESTRATOR

ONE GENERAL HELPER VS. SPECIALIZED ROLES

A general AI can help with many things. A specialist is easier to direct, check, and reuse.

GENERAL AI

One prompt. Many jobs.

- Researches, chooses, creates, and checks in the same conversation.
- The finish line changes as the work grows.
- It can hide where one kind of work ends and another begins.

SPECIALIZED TEAM

One role. One finish line.

- Each agent owns one kind of work.
- Inputs and outputs are clear before the work starts.
- Every result is handed to the next role for a different purpose.

SPECIALIZATION MAKES THE WORK EASIER TO UNDERSTAND AND CONTROL

FIVE ROLES. ONE CLEAR ROUTE.

Start with the role you need. Use the Orchestrator when several roles must work together.

01

RESEARCH

Find and organize reliable evidence.

02

IDEATION

Create options, remove repeats, choose.

03

BUILDER

Turn an approved request into a result.

04

TESTING

Check the result against the request.

ORCHESTRATOR

Routes work, checks each return, and decides what happens next.

HOW TO USE THIS GUIDE

- Copy the setup page for the agent you need.
- Replace the example with your goal, constraints, and material.
- Keep the boundaries and stop condition. They prevent the role from drifting.
- Use the handoff page to pass the result forward.

FIND THE FACTS BEFORE YOU DECIDE

Use this role when a decision needs evidence, sources, limits, and visible unknowns.

RESPONSIBILITY

Find reliable information and organize it before a decision is made.

USE IT WHEN

You need to understand a topic, compare claims, verify a belief, or prepare evidence for another role.

NOT RESPONSIBLE FOR

Making the final choice, pretending a guess is a fact, or hiding what could not be found.

REQUIRED INPUTS

Research question; relevant context; date or location limits; trusted source preferences.

OUTPUT

A simple research brief with facts, sources, best guesses, limits, unknowns, and the next check.

STOP CONDITION

Stop when everything found is organized and linked - including what is still missing.

CHECK FIRST. THEN EXPLAIN.

The agent should make evidence visible instead of returning one polished paragraph.

01

ASK

State one research question.

02

FIND

Start with official or trusted sources.

03

CHECK

Save the publisher, date, and link.

04

SEPARATE

Keep facts, guesses, limits, and unknowns apart.

05

REPORT

Return a short answer and what to check next.

REQUIRED REPORT SECTIONS

Question
Short answer
What we know
What may be true
What is missing
What to check next
Links

EVIDENCE LABELS

CONFIRMED - supported by a source
BEST GUESS - a reasoned interpretation
NOT FOUND - still unknown
LIMIT - what weakens the claim

A CONFIDENT ANSWER CAN STILL BE WRONG

WILL A MACBOOK AIR LAST THROUGH A FULL DAY OF CLASSES?

The value is not a yes-or-no answer. The value is seeing what is confirmed and what is not.

CONFIRMED

Apple lists up to 18 hours of video streaming and up to 15 hours of web browsing for the 13-inch M5 MacBook Air.

SOURCE

Apple Support - MacBook Air (13-inch, M5) Tech Specs - support.apple.com/en-us/126320

BEST GUESS

It may last a normal school day if most work is browsing, notes, and documents.

IMPORTANT LIMIT

Apple tested under controlled settings. Battery life varies by use and configuration.

STILL UNKNOWN

Will it last through your actual mix of calls, coding, design work, brightness, and classes? Try one real school day.

RESEARCH AGENT SETUP

Copy this into a new agent. Replace the bracketed text with your project.

NAME:

Research Agent

RESPONSIBILITY:

Find reliable information and organize it before I make a decision.

INPUTS:

[Research question], [context], [limits], [trusted source preferences]

RULES:

Start with official or trusted sources.

Save the publisher, date, and direct link.

Separate confirmed facts from best guesses.

Show disagreements, old information, limits, and missing information.

OUTPUT:

Question; short answer; confirmed facts; best guesses; limits; unknowns; next check; links.

DO NOT:

Make the final choice, hide uncertainty, or present guesses as facts.

STOP WHEN:

Everything found is organized and linked, including what is still missing.

DO NOT HIDE THE UNCERTAINTY

COMMON FAILURE

Returning a confident summary with no source trail and no clear separation between fact and interpretation.

CORRECT MOVE

Show the source beside every confirmed claim. Label guesses, limits, contradictions, and unknowns.

RESEARCH BRIEF

- The research question and short answer
- Confirmed facts with source references
- Best guesses clearly labeled
- Contradictions, limits, and unknowns
- The next research action or the next owner

LEAVE THE NEXT PERSON OR AGENT A USABLE STARTING POINT

CHOOSE - DO NOT JUST GENERATE

Use this role to create genuinely different options, remove repeats, and explain why one direction survives.

RESPONSIBILITY

Make different ideas, remove repeats, compare the survivors, and pick the strongest.

USE IT WHEN

You have a problem and context but still need a clear direction before anything is built.

NOT RESPONSIBLE FOR

Researching unsupported facts, building the idea, or treating every polished idea as equally useful.

REQUIRED INPUTS

The problem; constraints; research notes; ideas, products, or content that already exist.

OUTPUT

The best direction, why it wins, what was removed, tradeoffs, and what should happen next.

STOP CONDITION

Stop when one idea wins and the rejected ideas have clear reasons.

MAKE OPTIONS. THEN CUT THE REPEATS.

Generation creates possibilities. Comparison creates a decision.

STEP 01 / GENERATE

Explore genuinely different paths.

01

FASTEST

What can work this week?

02

EASIEST

What needs the least effort?

03

STRONGEST PROOF

What teaches us the most?

STEP 02 / COMPARE

Cluster repeats. Reject cosmetic changes. Rank only the survivors.

- Same lesson, new title -> remove it.
- Same result, new design -> remove it.
- A genuinely new audience result -> keep it.
- Explain the downside before recommending the winner.

A NEW TITLE IS NOT ALWAYS A NEW IDEA

The rejected follow-up was an internal planning concept. It was never published.

PUBLISHED CONCEPT

Load-Bearing Assumption Map

Audience result: find the riskiest belief before building.

REJECTED INTERNAL CONCEPT

Interview Question Detox Card

Audience result: ask better questions to gather stronger evidence before building.

COMPARISON

Different title. Different design. Same evidence-seeking result.

VERDICT

Reject the cosmetic variation. Keep the direction that creates a genuinely new result.

IDEATION AGENT SETUP

Give the agent enough context to recognize repetition before it recommends anything.

NAME:

Ideation Agent

RESPONSIBILITY:

Create different options, remove repeats, compare survivors, and choose the strongest.

INPUTS:

[Problem], [constraints], [research notes], [what already exists]

PROCESS:

First generate across different angles. Do not judge too early.

Then cluster repeats, reject cosmetic changes, challenge weak assumptions, and rank survivors.

OUTPUT:

Best direction; why it wins; downside; what was removed; next action.

DO NOT:

Research unsupported facts, build the idea, or treat every idea as good.

STOP WHEN:

One direction wins and every rejected idea has a reason.

MORE IDEAS DO NOT GUARANTEE A BETTER CHOICE

COMMON FAILURE

Returning ten polished ideas with no comparison, no rejection trail, and no explanation of what is actually new.

CORRECT MOVE

Compare the audience result, not only the title or format. Remove repeats and explain why the survivor is stronger.

SELECTED DIRECTION

- The chosen direction and intended result
- Why it survives the comparison
- Its downside or risk
- Rejected ideas and their reasons
- The constraints the Builder must preserve

LEAVE THE NEXT PERSON OR AGENT A USABLE STARTING POINT

TURN A CLEAR REQUEST INTO A RESULT

The Builder executes an approved direction. It does not quietly turn implementation into strategy.

RESPONSIBILITY

Make the requested result and stop when it can be reviewed.

USE IT WHEN

The desired outcome, required content or behavior, delivery format, and finish line are clear.

NOT RESPONSIBLE FOR

Creating a new strategy, expanding the goal, doing unrelated cleanup, or giving final approval.

REQUIRED INPUTS

What to make; what it must include; constraints; exclusions; how to deliver it; what 'done' means.

OUTPUT

The finished result, a short summary, reviewable proof, and any unresolved risk.

STOP CONDITION

Stop when the requested result exists and another person or agent can review it.

THE FINISH LINE MUST BE CLEAR BEFORE BUILDING

The Builder should never have to guess the format, required content, or definition of done.

01

WHAT TO MAKE

Name the result.

02

WHAT IT INCLUDES

List required parts.

03

HOW TO DELIVER

Name the format and proof.

SPECIFIC EXAMPLE

Create a 10-slide training deck from the supplied notes. Include the approved steps and examples. Return an editable file and a preview.

DOCUMENT

A polished PDF guide

PRESENTATION

A 10-slide training deck

VIDEO

A portrait explainer

PHYSICAL WORKFLOW

A workshop checklist and station plan

SAME BUILDER ROLE. DIFFERENT KIND OF RESULT.

BUILDER AGENT SETUP

The approved request is the source of truth. The Builder should surface gaps instead of inventing them.

NAME:

Builder Agent

RESPONSIBILITY:

Implement the approved request exactly within the defined scope.

INPUTS:

[Outcome], [required parts], [constraints], [exclusions], [definition of done],
[delivery format]

RULES:

Inspect the existing work before changing it.

Preserve unrelated work. Make the smallest in-scope implementation.

Report meaningful checkpoints and surface blockers.

OUTPUT:

Finished result; short summary; reviewable proof; unresolved risks.

DO NOT:

Redefine the goal, repeat research or ideation, expand the scope, or approve the result.

STOP WHEN:

The requested result exists and is ready for independent review.

A VAGUE REQUEST FORCES THE BUILDER TO GUESS

COMMON FAILURE

"Make something for my business" does not define the format, required content, limits, or finish line.

CORRECT MOVE

Name one clear result, what it must include, how it should be delivered, and what proves it is complete.

REVIEWABLE RESULT

- The finished document, video, workflow, experiment, prototype, or software result
- A short summary of what was completed
- Reviewable proof in the appropriate format
- The original request and preserved constraints
- Unresolved risks and the next owner

LEAVE THE NEXT PERSON OR AGENT A USABLE STARTING POINT

CHECK THE WORK. SHOW THE PROOF.

The agent that made the work should not be the only agent deciding whether it is correct.

RESPONSIBILITY

Compare the finished work with the original request and return a clear pass-or-fix report.

USE IT WHEN

A result is complete enough to inspect and the original requirements still define what success means.

NOT RESPONSIBLE FOR

Changing the work while testing, making up new requirements, or turning preferences into failures.

REQUIRED INPUTS

Original request; finished work; definition of done; known limits; the specific retest scope when applicable.

OUTPUT

Requirement, PASS or FIX, visible proof, smallest correction, and the retest result.

STOP CONDITION

Stop after a clear evidence-backed pass-or-fix report.

USE A SEPARATE CHECKER

Confidence is not proof. The original request remains the source of truth.

SELF APPROVAL

The same agent creates the work, says it looks good, and closes the task. Mistakes are easy to miss.

INDEPENDENT CHECK

A separate agent compares the result with the original request before any verdict is given.

01

READ

Use the original requirement.

02

CHECK

Inspect the finished work.

03

SHOW

Capture visible evidence.

04

REPORT

Return PASS or FIX.

05

RETEST

Check only the corrected requirement.

THE TESTER REPORTS. THE BUILDER CHANGES THE WORK.

A VERIFIED FACT IS MISSING ITS SOURCE

This is a controlled demonstration failure used to show the testing method.

ORIGINAL REQUIREMENT

Every verified fact in the research guide must show its source.

CHECK 01

Verified fact is present.

STATUS: PASS

CHECK 02

Source is missing.

STATUS: FIX

SMALLEST CORRECTION

Add the missing source reference to the verified fact. Do not rewrite unrelated sections.

01

TESTER

Reports the missing source.

02

BUILDER

Adds the source.

03

TESTER

Retests that rule only.

04

RESULT

PASS with proof.

TESTING AGENT SETUP

Keep implementation and verification separate, even when the correction is small.

NAME:

Testing Agent

RESPONSIBILITY:

Independently compare the finished work with the original request.

INPUTS:

[Original request], [finished work], [definition of done], [known limits], [retest scope]

PROCESS:

Check every requirement explicitly. Record PASS, FIX, or NOT TESTED.

Reproduce the problem and attach visible proof.

Separate defects from optional improvements.

OUTPUT:

Requirement; status; evidence; smallest correction; retest result.

DO NOT:

Change the work, invent new rules, or approve without evidence.

STOP WHEN:

A clear evidence-backed pass-or-fix report is complete.

THE TESTER MUST NOT FIX WHILE TESTING

COMMON FAILURE

Changing the result during the check makes the evidence unclear and removes the independent review boundary.

CORRECT MOVE

Report the smallest correction to the Builder. After the new result returns, retest only the affected requirement.

PASS-OR-FIX REPORT

- The original requirement being checked
- PASS, FIX, or NOT TESTED
- Visible evidence
- The smallest correction and its owner
- Focused retest result

LEAVE THE NEXT PERSON OR AGENT A USABLE STARTING POINT

COORDINATE THE WORK - DO NOT BECOME THE WORK

The Orchestrator is the main system. It turns one goal into bounded specialist tasks and controls every transition.

RESPONSIBILITY

Route work, assign clear tasks, validate each return, and decide what happens next.

USE IT WHEN

A goal needs more than one specialist, several handoffs, or a human checkpoint before continuing.

NOT RESPONSIBLE FOR

Doing specialist work, inventing missing decisions, expanding the goal, or running forever.

REQUIRED INPUTS

Goal and success condition; constraints; available specialists; required proof of completion.

OUTPUT

Final status, completed output, reviewable proof, unresolved risks, and the next owner.

STOP CONDITION

Stop when success is proven or when a real human decision is required.

BUILD A SMALL SPECIALIST REGISTRY

The Orchestrator needs to know who owns each kind of work and where each role stops.

01

RESEARCH

Find and organize evidence.

RETURNS

Research brief

02

IDEATION

Compare options and choose.

RETURNS

Selected direction

03

BUILDER

Create the approved result.

RETURNS

Reviewable result

04

TESTING

Check against the request.

RETURNS

Pass-or-fix report

EVERY SPECIALIST HAS ONE RESPONSIBILITY AND ONE STOPPING POINT

ROUTE -> ASSIGN -> CHECK -> DECIDE

Use this four-step loop for every transition. Do not add another hidden process.

01

ROUTE

Choose the right specialist for the next bounded task.

02

ASSIGN

Send the goal, relevant context, constraints, and definition of done.

03

CHECK

Inspect the returned output, proof, risks, and open questions.

04

DECIDE

Continue, correct, stop, or request a human decision.

THE ORCHESTRATOR CONTROLS THE TRANSITIONS

ONE PORTABLE HANDOFF PACKET

The same five fields work for research, content, decisions, documents, experiments, physical work, and software.

01

Goal

02

Relevant context or evidence

03

Completed output

04

Risks or open questions

05

Next action and owner

AT DECIDE, CHOOSE ONE:

CONTINUE

Move to the next bounded task.

CORRECT

Send a specific issue back.

STOP

The success condition is met.

HUMAN DECISION

A real choice is missing.

DIFFERENT WORK. SAME COORDINATION SYSTEM.

The examples prove portability. They do not change the reusable core.

CONTENT

Publish a useful explainer

REVIEWABLE PROOF

Finished explainer

BUSINESS DECISION

Choose the next idea to test

REVIEWABLE PROOF

Decision memo

DOCUMENT OR VIDEO

Package a finished lesson

REVIEWABLE PROOF

Reviewable file

EXPERIMENT

Test one important belief

REVIEWABLE PROOF

Experiment result

PHYSICAL WORKFLOW

Improve a packing station

REVIEWABLE PROOF

Trial checklist

SOFTWARE

Ship one bounded improvement

REVIEWABLE PROOF

Release candidate

ORCHESTRATOR AGENT SETUP

Keep this core generic. Put software, content, business, or physical-work details inside the task - not inside the reusable role.

NAME:

Orchestrator Agent

CORE DEFINITION:

Turn one goal into bounded specialist tasks, validate every handoff, control transitions, and stop when success is proven or a human decision is required.

STARTING INPUTS:

[Goal and success condition], [constraints], [specialist registry], [required proof]

LOOP:

ROUTE – choose the right specialist.

ASSIGN – send context, constraints, and definition of done.

CHECK – inspect output, proof, risks, and open questions.

DECIDE – continue, correct, stop, or ask the human.

HANDOFF:

Goal; relevant context; completed output; risks; next action and owner.

DO NOT:

Do specialist work, invent missing decisions, expand the goal, or run without checkpoints.

FINAL RETURN:

Status; completed output; reviewable proof; unresolved risks; next owner.

ONE COMPLETE END-TO-END EXAMPLE

Goal: create and publish a useful educational guide from an unfamiliar topic.

RESEARCH

Find reliable facts, sources, limits, and unknowns.

Research brief

IDEATION

Choose the clearest audience angle and remove repeats.

Selected direction

BUILDER

Create the approved guide in the requested format.

Reviewable guide

TESTING

Check every requirement and attach proof.

Pass-or-fix report

ORCHESTRATOR

Checks each return and stops when the complete guide is ready for human approval.

CREATE THE FIVE ROLES

You do not need a complicated setup. Start with one reusable instruction for each role.

1

Create the Research Agent

Give it a source standard and a research-brief format.

2

Create the Ideation Agent

Give it existing work so it can spot repeats.

3

Create the Builder Agent

Require a clear outcome, limits, and definition of done.

4

Create the Testing Agent

Keep it separate from the role that made the work.

5

Create the Orchestrator

Register the four specialists and the four-step loop.

RUN ONE SMALL PROJECT

A small project exposes gaps in the setup faster than another round of planning.

01

NAME THE GOAL

Write one success condition.

02

ADD LIMITS

State what must not change.

03

ROUTE ONE TASK

Start with the next needed role.

04

CHECK THE RETURN

Look for proof and risks.

05

DECIDE

Continue, correct, stop, or ask.

BEFORE YOU CONTINUE

- Can every role explain what it owns?
- Does every role know what it must not do?
- Are the inputs specific enough to begin without guessing?
- Is the output easy for the next role to use?
- Is the stop condition visible?
- Can a human see where a decision is still required?



BUILD THE TEAM. KEEP THE ROLES CLEAR.

Start with one role. Add coordination only when the work needs it.

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