

Agile Analytics

Instructions & Template for Peer-Reviewed Assignment

NOTE: Go to the 'File' menu and then use either 'Make a copy' or 'Download As' to make yourself an editable copy of this template.

What am I doing?

Overview

For this assignment, you'll be developing:

1. Project description
2. Demand/value hypothesis
3. User stories
4. Analytical questions and metrics to answer those questions

Instructions

Also, as you go through these, you may want to delete the **Intro Note** and **Instructions** sections in your copy. (In Google Docs, right-click (or two-finger click on Mac) and select 'Delete Table'.)

Part 1: Positioning Statement

Intro Note

If you're in the specialization, I recommend picking a concept you can build up through the courses. For example, you might have an idea to solve a problem (job, desire) you've had or seen, or you might want to focus on something at your current job. ***Regardless, it's most important that the idea is relatively specific (vs. perfect) and that it's okay for you to share it with your peer reviewers.***

Instructions & Example

For your product concept, just state what it does in the format you see below in 'Assignment'. As obvious as it may seem, I find this helps with focus and collaboration- it will also help your peer reviewers better understand the balance of your assignment.

For an example, please see [Appendix 1/Positioning Statement](#).

Assignment

Introduce your the company whose product you're working on with the positioning statement structured as follows [fill in the brackets]:

For [target customer] who [statement of the need or opportunity], the [product name] is a [product category] that [statement of key benefit – that is, compelling reason to buy]. Unlike [primary competitive alternative], our product [statement of primary differentiation].

Part 2: Sketch a Demand/Value Hypothesis

Intro Note & Examples

In this section, you'll explicitly define a demand/value hypothesis, making sure that it links back to a clear problem scenario/job-to-be-done and alternative. I've included examples from the HVAC in a Hurry in the appendix. Here's an example for this section: [Part 2: Sketch a Demand/Value Hypothesis](#).

Note: If you're in the specialization and you have drafted a value/demand hypothesis in one of the other courses, feel free to use that here.

Instructions

There are three rows in the template, but for the assignment you only need to complete *one*.

Note: If you're in the specialization and you have drafted problem scenarios, etc. in one of the other courses, feel free to use those here.

Assignment Body

Problem Scenarios/Jobs-to-be-Done	Current Alternatives	Your Demand/Value Hypothesis
[ADD- What fundamental job/problem/habit does the persona have in your area?]	[ADD- Instead of using your product or feature, what do they do right now to solve this delivery on the underlying job/problem?]	[ADD- What might you do that's better enough than the leading Alternative at delivering on the PS/JTBD? Make sure to render this in this testable form-- If we [do x] for [y customer] then they will [respond in z way].]
[add as needed]	[add as needed]	[add as needed]
[add as needed]	[add as needed]	[add as needed]

Part 3: Design a Testable Solution for Your Value/Demand Hypothesis

Intro Note

In this section, you'll sketch one or more epics, then pick one of them to detail and instrument with analytics. For the epic you detail, you'll identify a 'dependent variable' that answers the question 'How do we know if this implementation is working for the user?'. From there, you'll work out how you might observe this in steps and what 'independent variables' would help with your analysis there.

Note: As always, feel free to use work from previous courses. Also, there isn't a section here for a storyboard in the epics, but if you have that, I recommend including it to better articulate the epic.

Example

See [Appendix 1/Part 3](#) for an example.

Epic User Stories

[Epic 1 in format "As a [persona], I want to [do something] so that I can [realize a reward]"]

[Epic 2 in same format]

...

[Epic N in same format]

Epic 1- Detail

Dependent Variable/Goal for Epic 1

[Answer the following questions: What are the most important analytical questions for the epic as a whole? How will you know if the user is getting what you intended out of the interaction? What specific observations (the fewer the better) do you need to make to measure this?]

Child Stories & Analytics for Epic 1

Note: If you're in the specialization, the metrics for the child stories were previously optional. Below, add metrics that are actionable and detail how you might implement those metrics.

Child Stories	Analytical Question(s)	Analytics
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could implement in, say, Google Analytics]
[place your child stories for epic here]	[add analytical questions]	[add actionable metrics- that you could

		implement in, say, Google Analytics]
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Submitting Your Assignment

Remember to upload your work in ONE document (PDF format).

Appendix 1: Reference Example

Part 1: Positioning Statement

Intro Note

I've included a positioning statement for both the enterprise as a whole and the specific (internal) product the HinH team is working. I thought this enterprise statement would help with context/relevance for the product. Including a positioning statement for the enterprise/company as a whole is optional, though.

For the Enterprise as a Whole

For [facilities managers & business owners] who [need their heating & cooling systems managed and repaired], [HVAC in a Hurry] is a [full service heating and cooling provider] that [allows for easy and responsible management of a business' HVAC systems]. Unlike [smaller firms], our [commitment to best practices and training allows customers to worry less and realize superior total cost of ownership for their HVAC systems].

For their Digital Platform

For [dispatchers and technicians] who [work at HVAC in a Hurry], [H-ify] is an [enterprise software solution] that [improves the HVAC repair and maintenance experience for both internal staff and customers]. Unlike [ad hoc solutions], our product [has been carefully formulated and validated against best practices and awesome customer experiences out in the field].

Part 2: Sketch a Demand/Value Hypothesis

Problem Scenarios/Jobs-to-be-Done	Current Alternatives	Demand/Value Hypothesis
Getting replacement parts to a job site Engagement Metric [Parts Ordered/Period]	Call the office and request the part then wait for an update on the phone or through a call-back	If we automate parts lookup and ordering online, then the tech's will use it and it will improve outcomes.

Part 3: Design a Testable Solution for Your Value/Demand Hypothesis

Epic User Stories

'As Ted the HVAC technician, I want to know the pricing and availability of a part that needs replacing so I can decide my next steps.'

As Ted the HVAC tech, I want to order a replacement part so I can make sure I know my next steps and timing.

'As Ted the HVAC tech, I want to understand how to arrive at my next job prepared so I avoid logistical delays and the customer having to repeat themselves.'

'As Danielle the Dispatcher, I want to understand a customer's location, needs, and urgency level so I can decide who, what, and when to dispatch to their site.'

'As Danielle the Dispatcher, I want to see a specific technician's availability so I can decide whether I'm able to use them for follow-up on a job they started.'

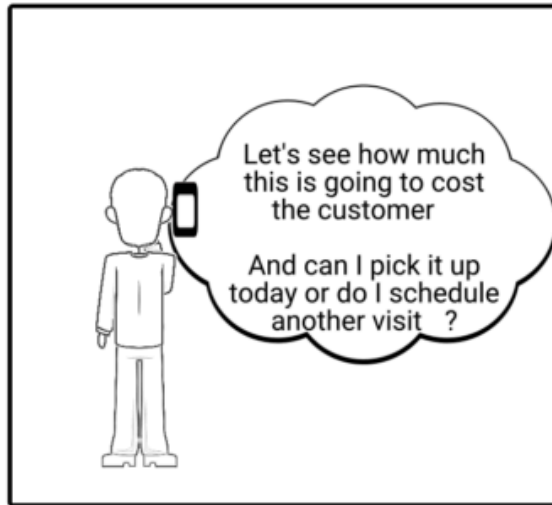
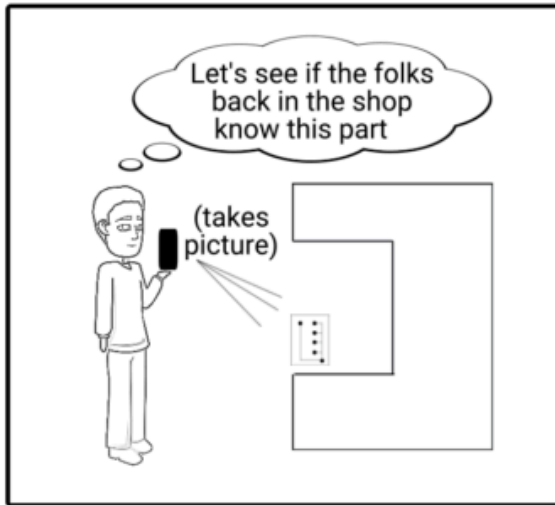
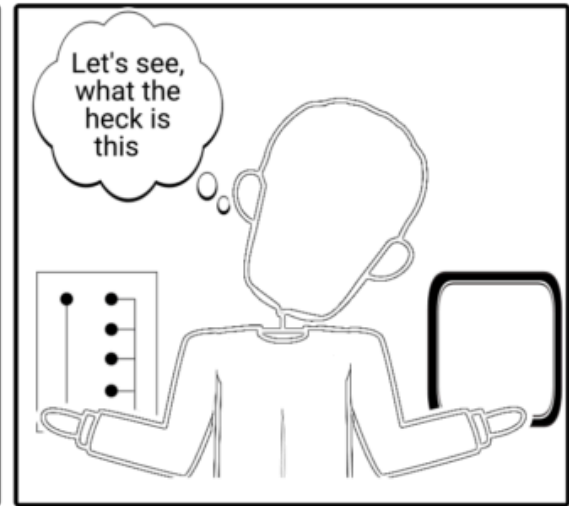
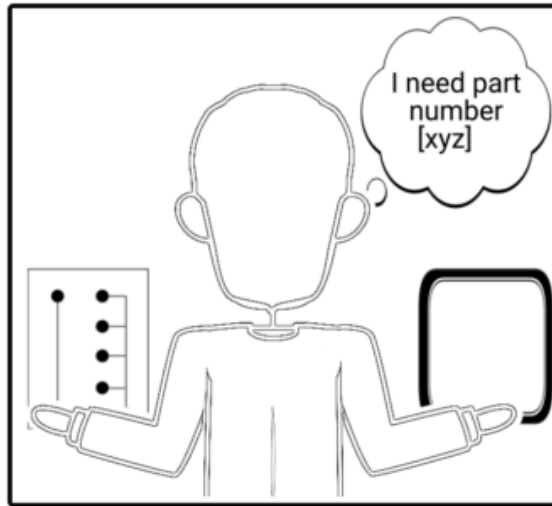
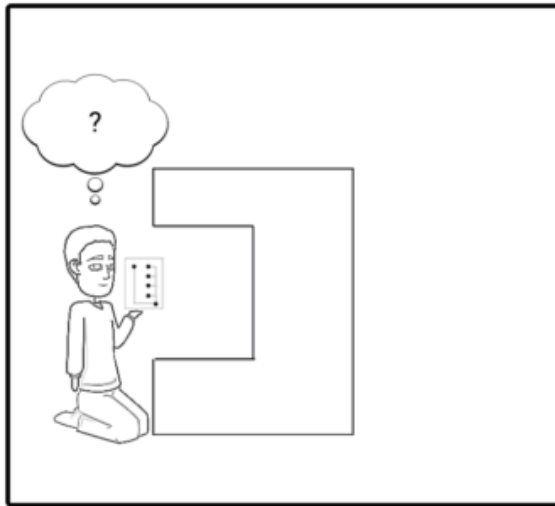
Epic 1

Epic 1 is: 'As Ted the HVAC technician, I want to know the pricing and availability of a part that needs replacing so I can decide my next steps.'

Please note:

a) The storyboard is **optional**

b) This was created with a tool, but a simple pencil/paper drawing is *fine*.



Dependent Variable/Goal for Epic 1

The key questions here are--

- a) Do the technicians use the tool to a) look up pricing and availability and/or b) place part orders?
- b) Does that make them more productive?

The specific dependent variables for this, observations we might instrument into code and Google Analytics are:

- a) Views of parts detail + availability detail/specific result pages
- b) Orders

Also, customer satisfaction/job and billable/non-billable time for a cohort that uses the tool vs. doesn't would be relevant.

Child Stories & Analytics

Child Stories	Analytical Question(s)	Analytics
I know the part number and I want to find it on the system so I can find out its price and availability.	How often is this search used per transaction relative to the alternatives? How often does this search lead to a part order?	Metrics: <ul style="list-style-type: none">- Searches of this type relative to others- Sequence of this search relative to other search types- Conversion to order from this type of search (%)
I don't know the part number and I want to try to identify it online so I can find out its price and availability.		(see above)
I don't know the part number and I can't determine it and I want help so I can find out its price and availability.		(see above)
I want to see the pricing and availability of the part so I decide on next steps and get	How often does this lead to a part order? How well do techs that do this perform relative to	Metrics: Conversion rate to order

agreement from the customer.	others?	<p>Customer satisfaction per job of tech's in a cohort that use the tool vs. baseline (mean customer satisfaction per job)</p> <p>Billable hours for tech's in this cohort vs. baseline (billable hours per week)</p>
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