Introduction to PRODUCT MANAGEMENT

Jules Yang



What is a PM?

- A product manager (sometimes called program manager or project manager) is like the mini-CEO of their product
- Lead a team with authority, influencing them with your vision and research
- The intersection of **technology**, **business**, **and design**
 - A highly collaborative role
- Sometimes split role between the more business-focused and more engineering-focused person
 - o TPM vs. PM

Project vs. Product vs. Program

(in most cases)







Project Manager

Make sure projects get delivered on time and on budget, to the satisfaction of the customer

Product Manager

Works over the course of a product life cycle to translate a customer's needs into product goals

Program Manager

In charge of a long-running program with a series of projects with set end dates

Companies



2-year APM program, TPM, bottom-up approach



Top-down structure, EPM program



Program Manager role, top-down vision, spec-heavy



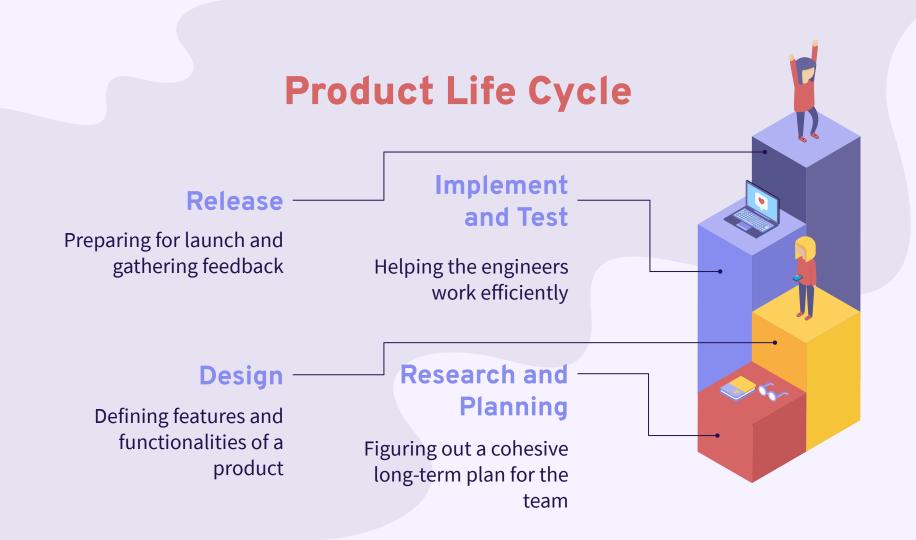
TPM role, data driven, business case in memos



Few PMs, rotational 1-year PM Program



PM and TPM, quarterly hack week, data driven





Research & Planning

Figuring out a cohesive long-term plan for the team

What to Build Next?



Choosing Features

Brainstorming to see what features to pick



Defining a User

Identifying customers needs and wants



Defining Success

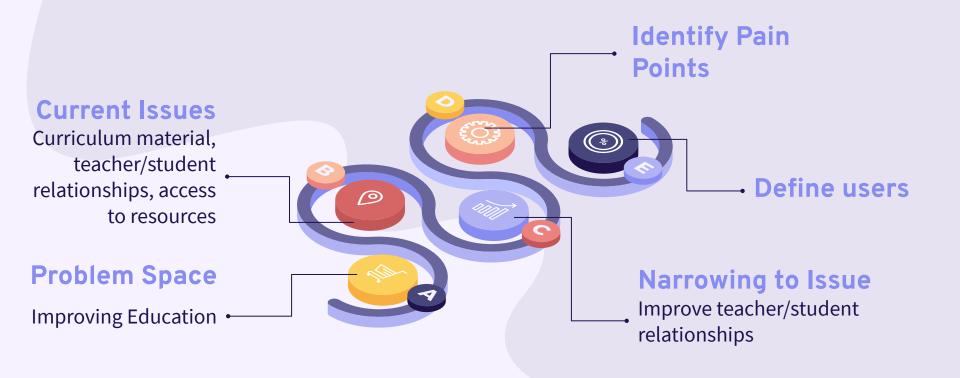
What is the goal?



Analyze the Market

What technologies are currently out there?

Finding a Problem Statement



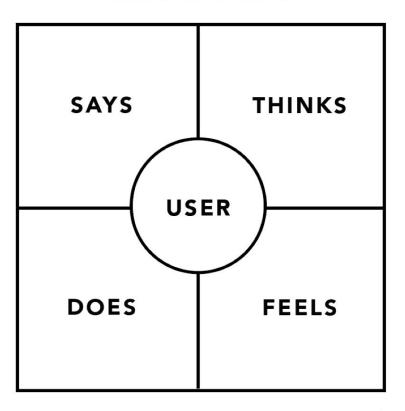


Customer Empathy Activity

Problem space: improving education experience for students by strengthening student-teacher relationships

Crazy 8's

EMPATHY MAP





Daivd Miller

- **28**
- New-York
- Product Designer
- A Living with his girlfind

Bio

Lives in a rented apartment, 2.5 rooms, with his student girlfriend, works in a high-tech job. Likes hosting people. After a long day at work, he likes to throw on the couch with his girlfriend in front of the TV.

Wants & Needs

- · Create a cozy atmosphere at home with innovative design.
- Design the house at low investment and without much effort.

Tech

Internet Social Media **Online Shopping** Gatgets **Early Adopter**

Favorite Brands









Frustrations

- · Don't want to spend money on interior designer and he doesn't have much time to deal with the design planning.
- * He designs his apartment, but he thinks that she can look much better.

Getting to the Features

Feature List

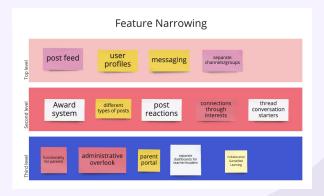


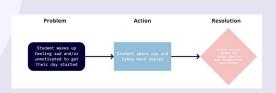
Narrowing Features



User Scenarios













THREATS

- Things your company does well
- Qualities that separate you from your competitors
- Internal resources such as skilled, knowledgeable staff
- Tangible assets such as intellectual property, capital, proprietary technologies etc.

- Things your company lacks
- Things your competitors do better than you
- · Resource limitations
- Unclear unique selling proposition

- Underserved markets for specific products
- Few competitors in your area
- Emerging need for your products or services
- Press/media coverage of your company

- Emerging competitors
- Changing regulatory environment
- Negative press/ media coverage
- Changing customer attitudes toward your company





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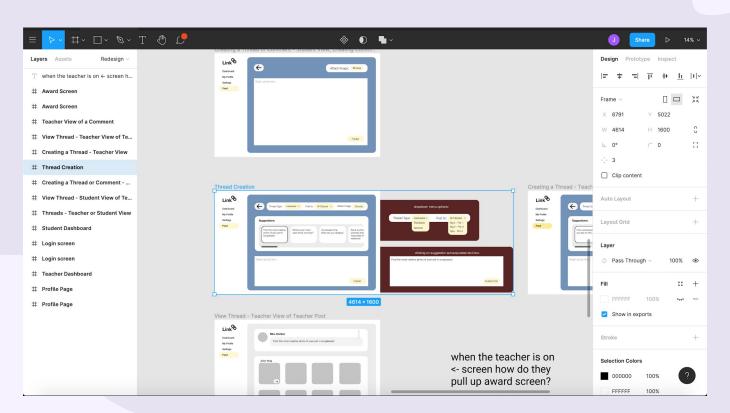
Design

Defining features and functionalities of a product

Paper Prototypes



Wireframes



Parts of a Spec

1. Problem statement

a. Defines what the product is solving

2. Summary

Background on why this product is needed

3. Customer profile

a. Who the product is for

4. Goals

a. What are you improving

5. In scope scenarios

a. The user stories that the product will fulfill

6. Out of scope scenarios

a. The user stories that the app will not fulfill at this time

7. UX

a. Walkthrough of screens in product

8. Breakdown of work

 Engineering descriptions of how app is built

9. Compete analysis

a. SWOT

10. Future opportunities



03

Implementation & Test

Helping the engineers work efficiently

A PM's Work During Implementation

- Unblock engineers when they are waiting for work from another team
 - Find other tasks for engineer
 - Work with other team to get work finished more promptly
- Look for ways to change a feature to be easier to implement
- Gather feedback and report bugs on early version of product
 - Usability studies
 - Run experiments
 - Internal "dogfooding"

Task List

Task	Assigned To	Priority
Creating 'Publish' button as reusable component (S)	Jules	P0
Custom reactions for comments and posts (L)	Jules	P2

*T-shirt sizes to indicate size of task

P0 - highest priority

P1 - important

P2 - could be pushed off until later

P3 - would be nice to have, could be pushed off or eventually deleted

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Your Future

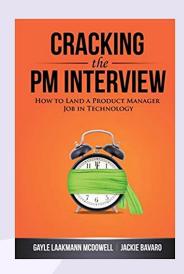
What to do if you want to explore PM further?

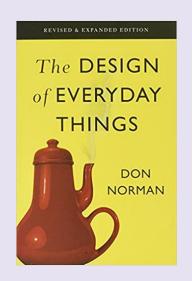


Resources

Cracking the PM Interview: How to Land a Product Manager Job in Technology

The Design of Everyday Things





Sample Interview Questions

- 1. What's your favorite product and why?
 - a. How would you improve that product?
- 2. Design a LinkedIn for educators.
- 3. How would you design a microwave for the visually impaired?
- 4. How would you optimize serving time at an ice cream shop?
- 5. Imagine you're a PM at Bing. What would you do to take over 5% of the Google Search market share?
- 6. What things should you consider when building a new feature?

Advice for Becoming a PM

1. Stay technical

Having a technical background helps a lot and may be even required

Take on leadership roles

Demonstrate strong leadership and innovation skills

2. Understand the Why?

Be able to see why a product or feature is a certain way

4. Start a side project

Show your customer focus and product design skills

THANKS!

Any questions?

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