Product Management

Mini-Course

Class 1 - November 8, 2019

Marily Nika - marily@google.com



Marily Nika

Edu

- Ph.D in Computing Science, Imperial College
- Stanford Innovation & Entrepreneurship Diploma
- 2 x MSc (Finance & Computing Science)

Jobs

- Senior Al/ML Product Manager @ Google
- HBAP Teaching Fellow DSI & LIC
- EdTech Startup Founder
- Data Science (PhD) @ Facebook

Product Highlights

- Google's Voice Match feature
- Google's Speech Recognition for 30+ languages

Career Highlights

Woman in tech of the Year Award 2019



Get to Know: Kim Shane



Contact Information

kim.shane@mail.analytics.hbs.edu Slack: @Kim Shane

Kim Shane HBAP Online Learning Manager

Where You May Have Seen Her Before:

- Operations and Supply Chain Management
- Data-Driven Marketing
- Leadership and People Analytics

Contact Kim for questions about:

- Access to content
- Technical assistance
- Scheduling Conflicts
- Homework submissions

About the Course

- **Session 1** Friday November 8, 12 I PM ET Intro to the Product Management role
- Session 2 Friday, November 22, 12 I PM ET
 Personas, Use Cases, Pain points and how to work with engineering
- **Session 3** Friday, December 6, 12 I PM ET Long-term strategy, setting the right metrics and growth hacking
- Session 4 Friday, December 13, 12 I PM ET Selected Assignment presentations

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Key Takeaways

- ✓ Why is the PM role crucial to an organization
- ✓ Best practices for being / hiring a great PM
- ✓ Real world examples

Assignment

Design & Pitch your own mini-product
Deadline: December 9th

What does a Product Manager do?



TLDR: A PM helps their team (and company) to build and ship the <u>right</u> product

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skills needed: resource management, coordination, support

TLDR: A PM helps their team (and company) to build and ship

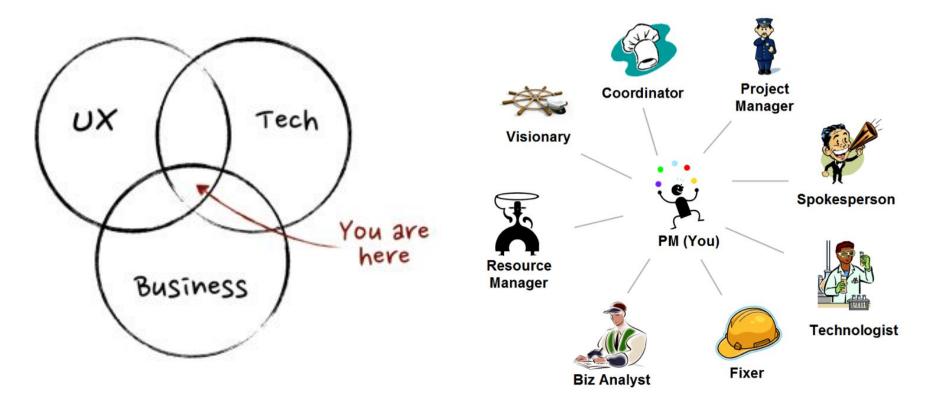
TLDR: A PM helps their team (and company) to build and ship

skills needed: technical influence, marketing, market understanding communication

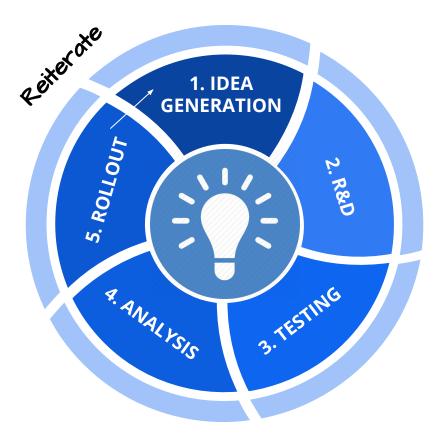
TLDR: A PM helps their team (and company) to build and ship the <u>right</u> product

TLDR: A PM helps their team (and company) to build and ship the *right* product

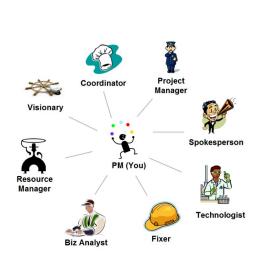
skills needed: Vision, Empathy, Creativity

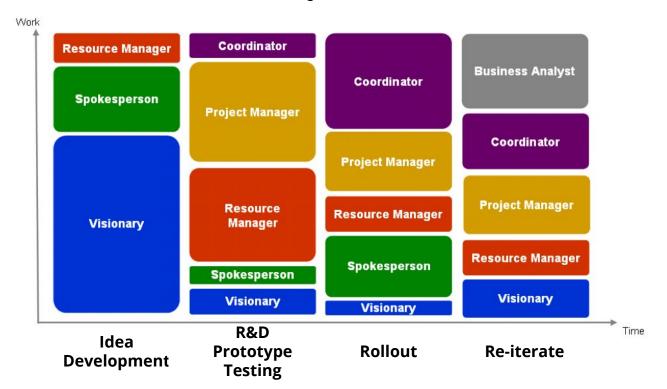


5 Stages of Product Development



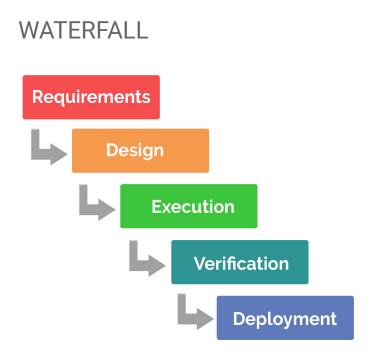
Roles over lifecycle





Product Managers are <u>not</u> Project Managers

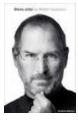
But they also project manage...







Idea Generation

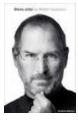


"A lot of times, people don't know what they want until you show it to them."

- 1. Ahead of your time
- 2. Listen to customers
- 3. Brainstorm
- 4. Review competition



Idea Generation



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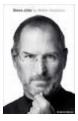
- 1. Ahead of your time
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An idea can be...

- Groundbreaking (1b\$ idea)
- 2. An improvement to an existing Product
- 3. Focusing on a particular metric...



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Engineering PM **Design** PM

Business PM **Data** PM **Growth** PM



Idea Generation & PM experiences



"A lot of times, people don't know what they want until you show it to them."

Fitbit: "Physical activity trackers designed to help you become more active, eat a more well-rounded diet, sleep better and ultimately, turn you into a healthier human being." <u>Video 1</u>, <u>2</u>

Airbnb: "AirBed & Breakfast: Book rooms with locals, rather than hotels"

LinkedIn: "Social networking site designed specifically for the business community ...establish and document networks of people they know and trust professionally"

Tesla, electric car manufacturing

"The Model 3 may have four wheels and a car-shaped body, but that's where its similarity to most cars ends"





Tesla Case

The status quo was challenged by Tesla

- Frequent software updates
- Open-ended and continuously "in the making"
- ...until being a fully automated car

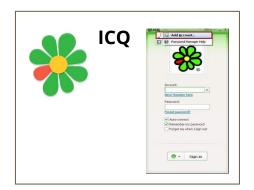
PM Strategy:

Enter the market with a product that is good enough, and promise continuous innovation until reaching full automation



<u>Amazon PM's comments</u>

Are you solving an actual problem?

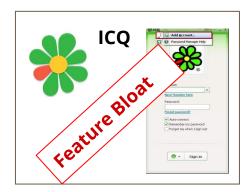








Are you solving an actual problem?







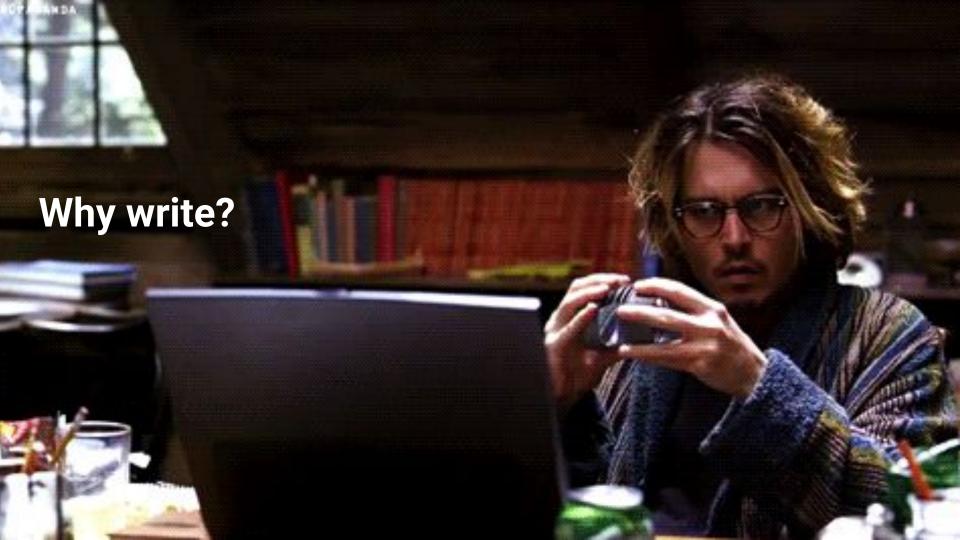


- ✓ **Don't fall into the "shiny object" trap**Align your product roadmap with business objectives.
- ✓ Understand the impact of each new feature
 - Get used to killing features, before they kill your product
- ✓ Adapt or face extinction
- Look before you leap.

A PM's Most Important Doc

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Product Requirements Doc (PRD)





PRD Structure

- Vision
- Background
 - Problem
 - Motivation
 - Target Audience
 - Existing Solutions
- Market Research
 - Competitor Landscape
 - Market Opportunity
 - Strategic Considerations
 - Why Now?
 - Differentiation
- Ideas

- User
 - Personas
 - Pain Points
 - Needs
 - User Flows
- Solutions
 - Feature Description
 - Feature Prioritization
 - Architecture
- Implementation
- Stakeholders
- Roadmap
 - Timeline
- Success Metrics
- Projected Cost
- Caveats/Risks
- Other Areas for Investigation

PRD Assignment

- Vision
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- Ideas

You will need to answer:

- What problem are you solving?
- How big of a problem is it?
- Why are you solving it?
- Brainstorm some ideas, not too much detail
- No need to submit at this stage, we will discuss next time.

Start working on this part of PRD for Session 2

Assignment

- User
 - Personas
 - Pain Points
 - Needs
 - User Flows
- Solutions
 - Feature Description
 - Feature Prioritization
 - Architecture
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- Stakeholders
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 - Timeline
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Assignment for Session 3

Rouwill need to Submit become. Decor.

Deadline: Decor.

Deadline: Decor.

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