

Webonise Lab

Induction Program

Agile Development Methodology

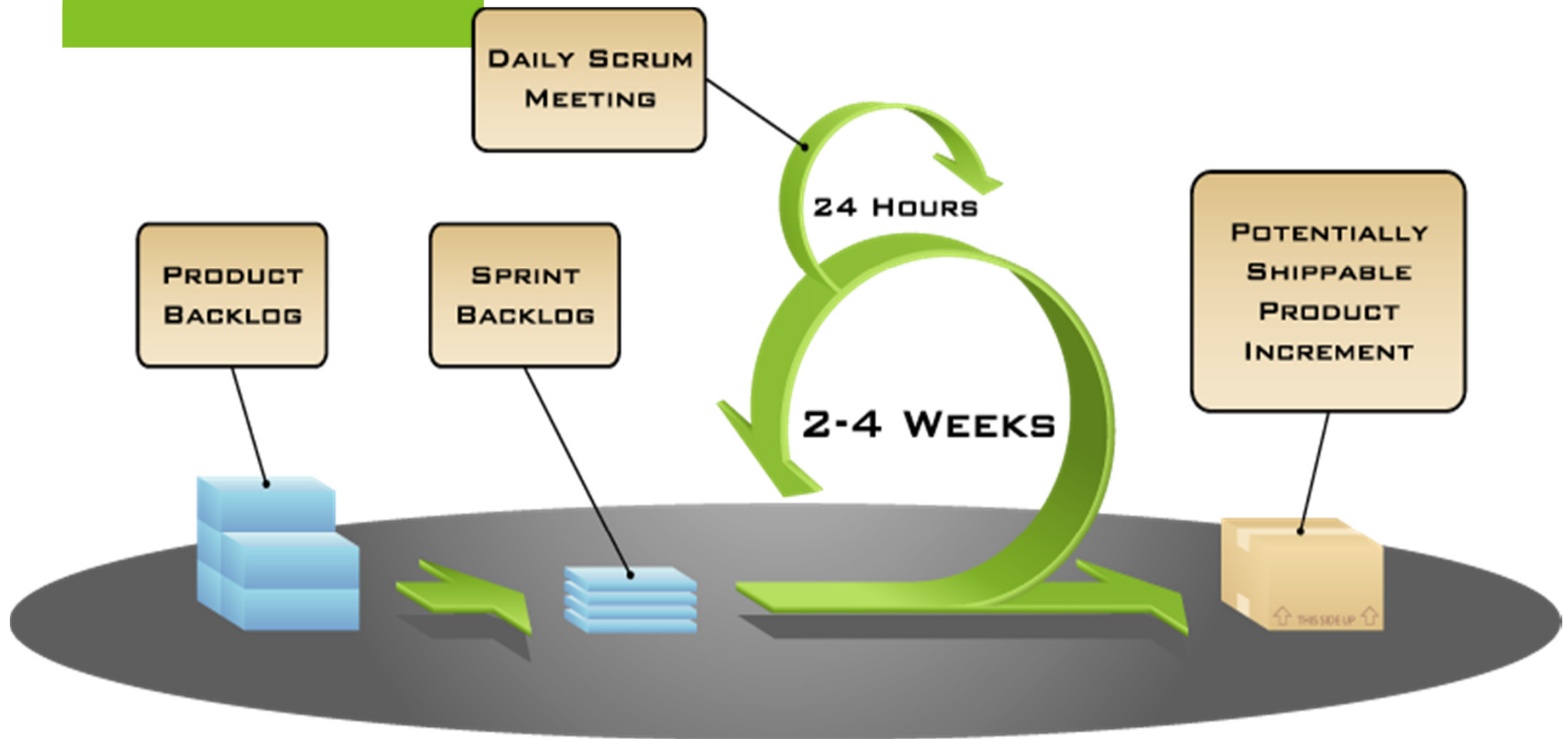
Introduction to Agile

- One of the project management methodologies whose roots are in adaptive planning
- To get anything done, you have to break big, scary problems down into smaller, simpler, more manageable ones
- Travel lighter and take only what you need.
- Continuous delivery
- Change course when necessary

Scrum

- One of the “agile processes”
- Self-organizing teams
- Requirements are captured as items in a list of “product backlog”
- Requires prioritizing the backlog for to “Releases” within a given timeframe
- Each release is broken into series of “sprints”

Scrum

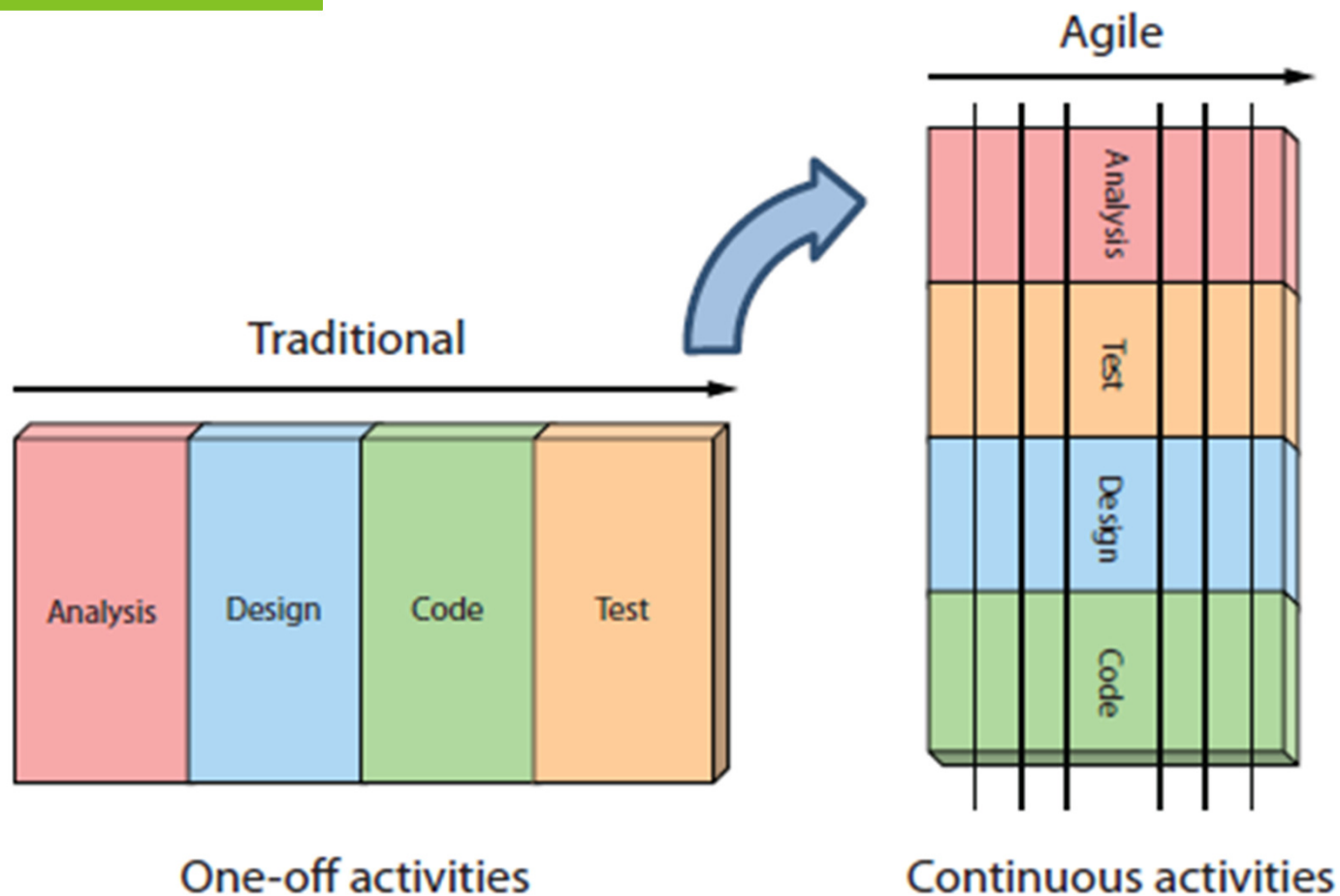


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Sprints

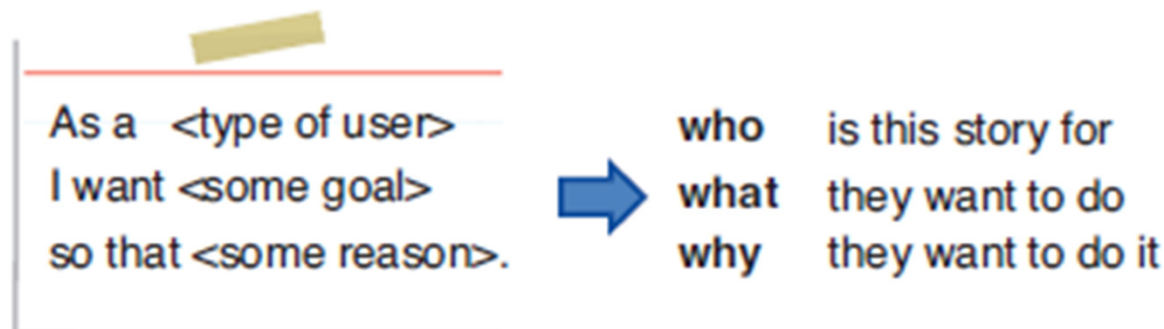
- Scrum projects make progress in a series of “sprints”
- Typical duration is **2–4 weeks or a calendar month** at most
- A constant duration leads to a better rhythm
- Product is designed, coded, and tested during the sprint
- Advocates **overlapping activities**
- **NO CHANGES**

Vertical slicing of tasks



Introduction to User Stories

- Agile user stories are short descriptions of features our customer would like to one day see in their software.
- They are usually written on small index cards (to remind us not to try to write everything down) and are there to encourage us to get off our butts and go talk to our customers.
- User stories are reminders of conversations and not details



A User story

As a Game Player,

I want my Rocket to move back and forth when I press left and right arrows

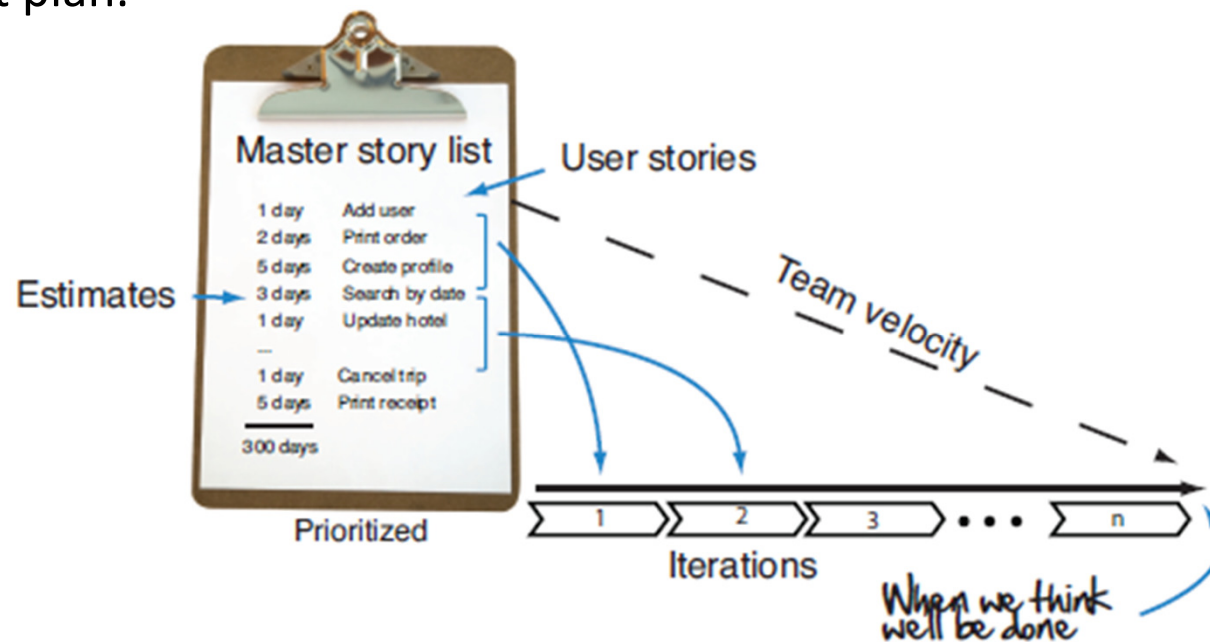
so that I can avoid asteroids

User Stories

- Customers won't write user stories. But make sure they participate and you capture their needs on an index card
- Story gathering exercise - write customer's need on index cards and put them up immediately for customer to see.
- Define user personas – use flowcharts, pictures etc.
- Every story should be testable. - make it objective. put limits on undefined stories:
- Remember **defining 'done'** - writing acceptance criteria.

Master Story List

- Master story list - then extract stories from it - It's prioritized by your customer.
- It's estimated by your development team, and it forms the basis of your project plan.



Inception Deck



Why are we here?

Elevator pitch

Product box

NOT list

Meet the neighbors

Show solution

Up at night

Size it up

What's going to give

What's it going to take

Inception Deck – I

- Why are we here?

Features



Benefits

245 horsepower engine

Cruise control

Anti-lock brakes

Pass easy on the highway

Save money

Brake safely with loved ones

Be sure to convert any features into benefits!

Inception Deck – I

Create an Elevator Pitch

What's our elevator pitch?



The Elevator Pitch

- For [construction managers]
- who [need to track what type of work is being done on the construction site],
- the [CSWP*]
- is a [safety work permit system],
- that [creates, tracks, and audits safety work permits].
- Unlike [the current paper-based system]
- our product [is web based and can be accessed any time from anywhere].

*CSWP: Construction Safety Work Permit

Inception Deck – I

**What would an ad for our
product look like?**

Design a Product Box

The Construction Safety Permit System

Ideal for mine sites



Process permits faster!
Process permits safer!
Track people's time better!

Where you need it. When you need it.

Inception Deck

The NOT list:

IN SCOPE	OUT OF SCOPE
Create new permit Update/Read/Delete existing permits Search Basic reporting Print	Interfacing with legacy road closure system Offline capability
UNRESOLVED	
Integration with logistics tracking Security card swipe system	

Inception Deck

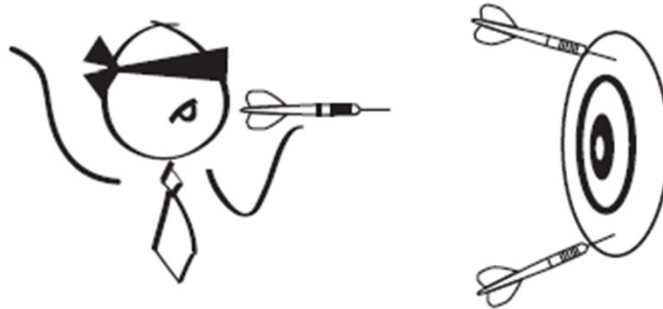
What keeps us up at night?

- Talk about Risks.
- Advantages:
 1. It highlights project challenges early.
 2. It gives you a chance to call the craziness
 3. It feels good

Estimates: The fine art of guessing

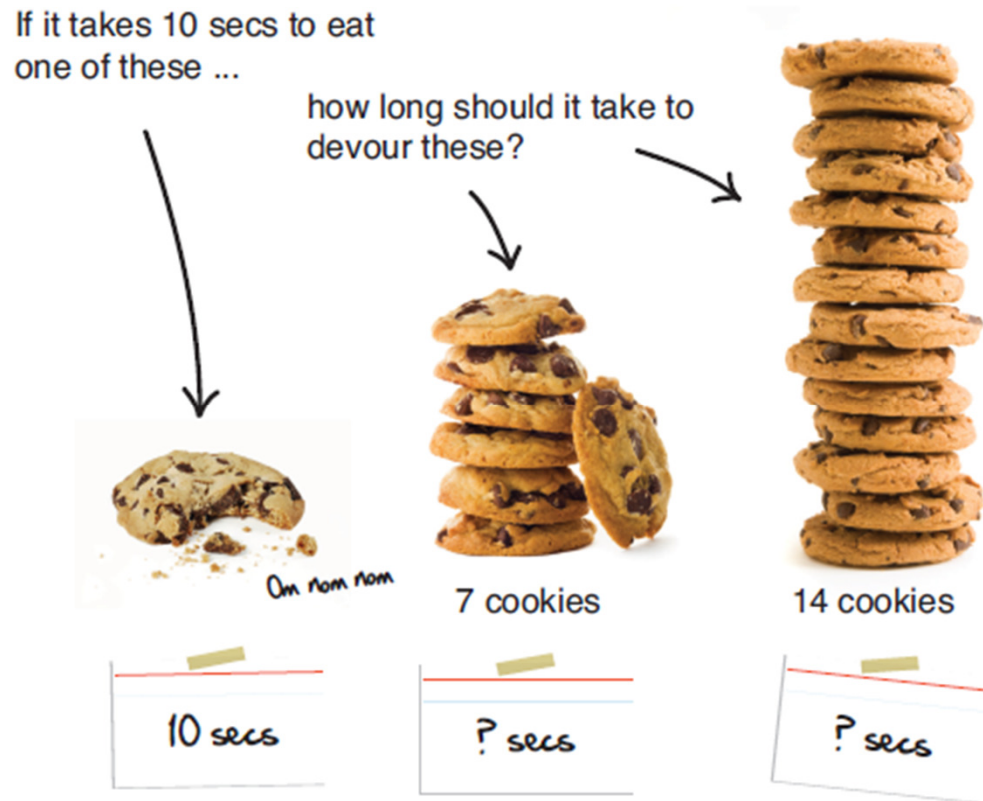
Team and customer both should know:

- High-level estimate - is what you give before detailing a story.
- Commitment is what you give after knowing the flow details of the story with all scenarios.



How to estimate?

With *that* definition, how do we justify the guesses we call estimates?



Inception Deck

Show what's going to give

There are some ppl who may want everything. Force them to prioritize.



Trade-off sliders

ON ← █ → OFF	Scope	← Flex here
ON ← █ → OFF	Budget	
ON ← █ → OFF	Time	
ON ← █ → OFF	Quality	
ON ← █ → OFF	Ease of use	
ON ← █ → OFF	Simple simple simple	
ON ← █ → OFF	Detailed audits	

Inception Deck

Show what's going to take

This part is important as every1 at the end is interested in only 2 questions:

- When is it going to be done?
- How much is it going to cost?

So be careful with commitments. This is also the part where you have to be careful with expectations. dont leave anything upto assumption.

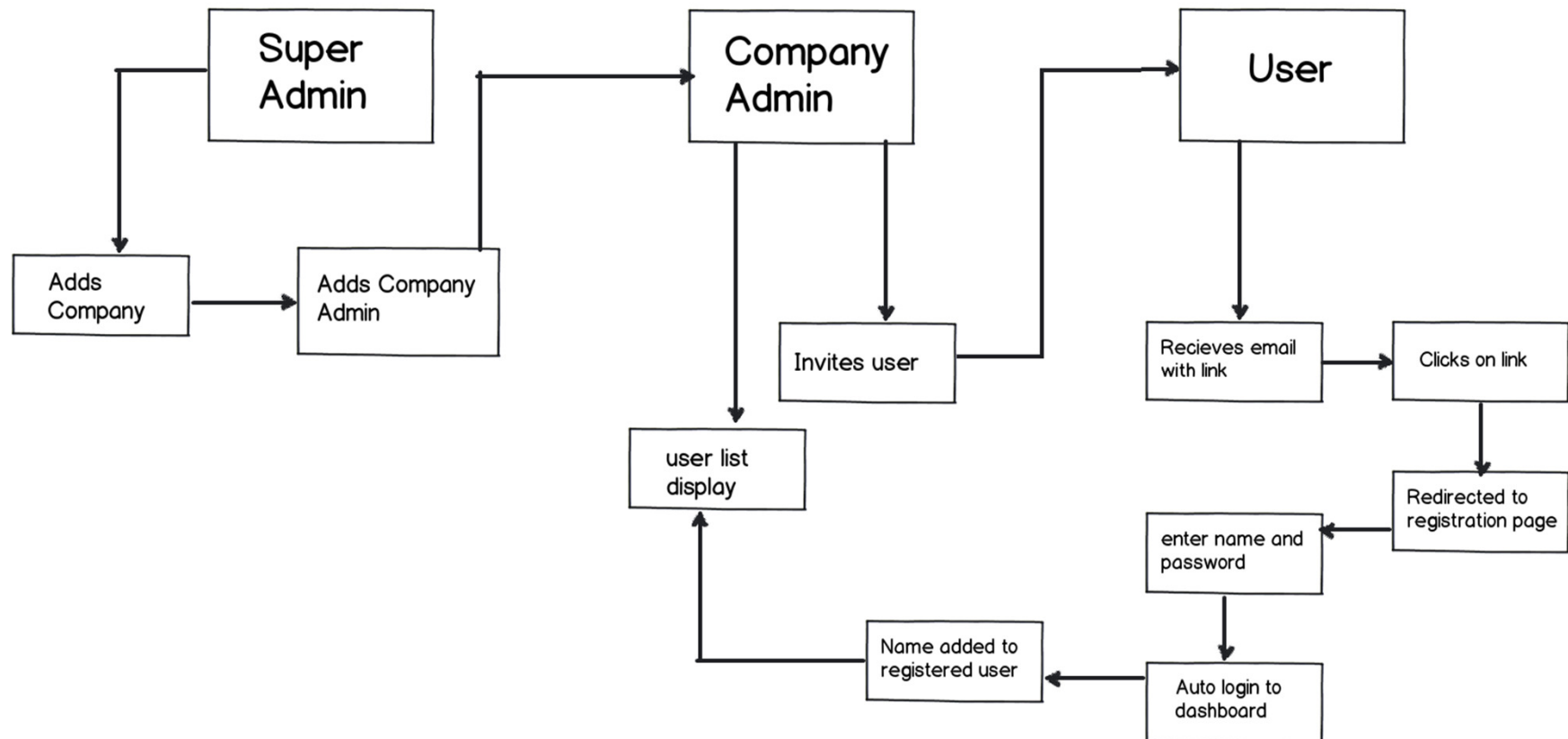
Steps to carrying out a project:

So finally, after knowing above things, we have our process in place:

- Do inception
- Make stories
- Prioritize
- Estimate
- Divide iterations
- Define done
- Track
- If anything goes wrong, recall the trade off chart.

Delivery Format

User Flows



Stories

Story Title: <feature name>

Story Description: <Role> should be able to <Goal> so that <Value>

Acceptance criteria 1:

Given – Condition prior to action

When – Action

Then – Condition post the action

Acceptance criteria 2:

Given – Condition prior to action

When – Action

Then – Condition post the action

Stories

1. CA should be able to upload XLS file containing the following for registering large number of users to his institute:
 - user type (student/faculty/corporate)
 - email id
2. User should be able to receive an email containing 'set password' link.
3. User should be able to set and confirm his password after clicking on the 'set password' link.

Acceptance criteria

- **Upload XLS**

Given:

CA is logged into his admin panel

CA wants to add users (student/faculty/corporate) to his institute

When:

CA clicks on 'upload users XLS'

Then:

CA should be able to choose from his computer files in a browsing window a XLS file to upload users

- **Sending registration invites**
- **After receiving invite mail**
- **Password mismatch**
- **Duplicate entries**
- **Blank entries**
- **Incorrect email**
- **Blank XLS**
- **Incorrect format**
- **Repeat registrations**

Assignment

Assignment: Business Description

- f-commerce – Facebook-enhanced retail – is the shiny new money-making- star for industry players and investors. 2010 was a big year for retailers and social media as the integration of the two flourished.
- f-commerce is already a viable retail platform with 1 in 11 users that are on Facebook. Another notable fact is that 200+ million Facebook users are accessing the utility through their mobile devices. For example, EasyJet and Delta Airlines added a booking engine to their Facebook pages and Levi's integrated Facebook and Levis.com together to create a social shopping experience. Disney also joined the fray and put movie tickets for sale on Facebook and JC Penney opened a fully-functional online store within Facebook

Assignment: Features

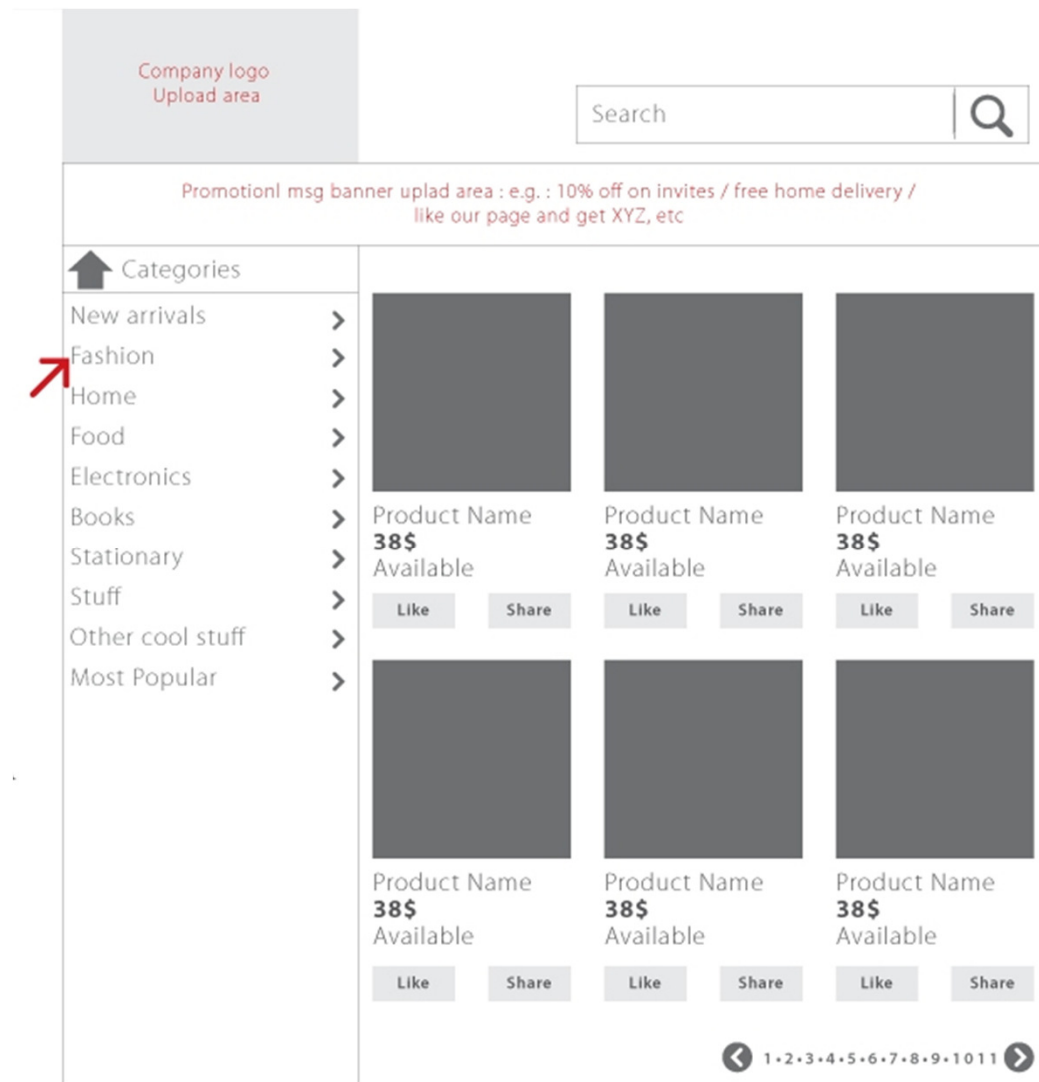
Application Features set.

- Admin for Product Catalog Management
- Admin for Product Category management
- Product Browsing
- Product category browsing
- Share Products with Friends or Like Products
- Buy Product will take a link to external e-commerce site where product will be listed.
- Comment on Products .

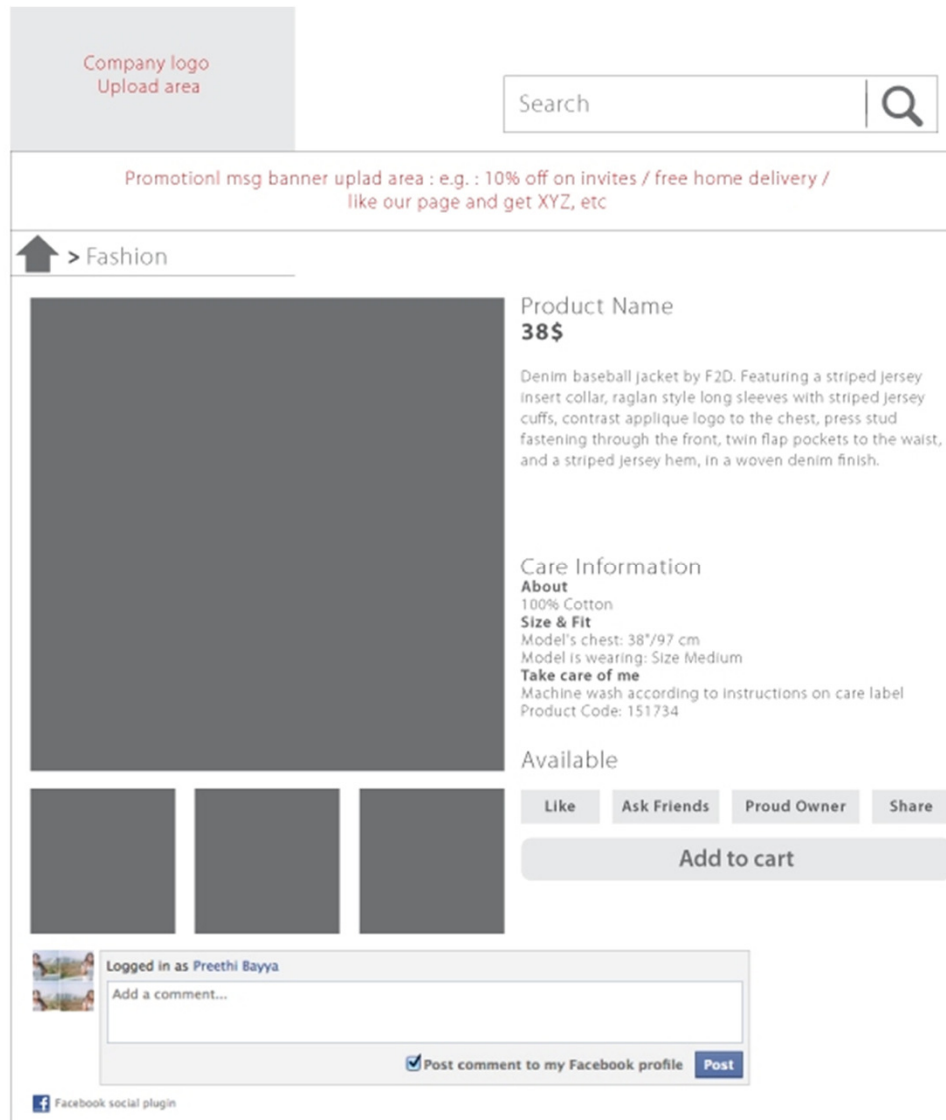
Product will have following parameters

- Title , description , 3 images , MRP , Discounted price , Buy Link
- Choose category to be associated , a product can be part of multiple category .

Assignment: Wireframe 1



Assignment: Wireframe 2



Thank You
