My general notes regarding data flow stemming from discussions surrounding Integration Hub during Wk1

One time Password Verification  
The encrypted password is held externally(3rd party) from Demandware  
On user entering the password, Demandware passes the rich text password to Mulesoft where the encryption algorithm is held that matches the externally held one. The encrypted password is then returned to Demandware for comparison with the externally held encryption if matched then true is returned or lese false

## Web Orders (IHUB-6)

Check inventory lookup API.

Demandware creates XML for the order and places it on the (AWS) SFTP Server (happens every Five minutes)

Mulesoft retrieves this file via the ‘Exported order feed’  
In addition the payment authorisation is made( no payment taken at this point)  
CIMS (ERP) retrieves the xml order   
JDA(WMS) Warehouse management system :-

receives an instruction to pick the items   
updates inventory status (stock levels etc.)

Once dispatched CIMS calls upon the Payment processing API

Salesforce commerce cloud payment interface  
An email is sent via Cheetah Digital containing customer order information

Product information  
Master Product Data (MPD) is entered into CIMS  
MULESOFT retrieves MPD  
InRiver (PIM) enriches data  
DEMANDWARE (Salesforce commerce cloud) retrieves enriched product data

## Integration benefits.

What day to day tactical decisions or longer term strategic ones are made based on transaction volume and taxonomy of data etc.? and what data would help you to get a keener competitive edge if it were more readily and reliably available.

What department and who within departments within the organisation run which reports? Organisational chart.  
What information is critical, and what data can we provide to assist in the presentation of this information.

## Objectives

*In this meeting, we will discuss and agree your objectives for the remaining appraisal period (up-to June 2018).*

*Please come prepared with between 3 and 5 ideas, which you believe you should achieve in this period. I will come with my own ideas as well, so we’ll discuss each and agree what makes the cut.*

*Please ensure each idea is ‘SMART’: Specific, Measurable, Attainable, Relevant, Timely. In essence, ask yourself how you can go ‘above and beyond’ for each, how we can measure this success and have confidence that it is achievable in the 6-month period ahead of us.*

Ideas…

### Integration HUB

How is data currently stored for reporting?  
What raw data can keep that may be useful later?

What data can we provide real/near time that will be useful?

How is anecdotal data being collected and used? is there a more efficient way of collection and is there other data that we can obtain from the IHUB?  
What reporting / analysis tools exist within Mulesoft IHUB that will give us an indication of   
volumetric growth? and how we can perhaps use this data to predict this, to safe guard against under resourcing.

The current batch based SFTP does not best reflect ideal AP led approach methods. What needs to be done to rectify this.

Suggestions for improvement on Development best practices.  
Chatting with Graeme Harkins, he has suggested FatFace may benefit from input and suggestions within the following development processes.

A development environment. (currently using a test environment that occasionally points to Production live data, this can prove to be a dangerous approach. A clearly defined code promotion process should be defined and agreed upon. Development 🡪 Test 🡪 Production  
  
UML methodology for requirements and design documentation, templates should made available to ensure consistency.  
Requirements whilst subject to change under the auspices of AGILE methodology, should have an initial agreement.   
A more formalised approach to coding standards should be undertaken, not necessarily draconian but never the less to be adhered to whist remaining workable. This should encompass naming conventions, code ‘gotchas’ and be relevant to SQL and 4GL languages. In addition, Standardised commenting formats, exception handling, logging should adhere to an accepted and formalised standard. Additionally, the coding standard should provide a general style guide. All code should be subject to a peer driven code review.  
This will reduce effort / cost in decipherment of code, improve consistency and thus overall maintainability of any new code written. An approach should be considered that allows ‘retro-fitting’ where ever developers come across ‘old style’ and code that does not conform to standards. It is essential to obtain ‘buy in ‘of all developers that contribute to the Fatface codebase.  
Development procedures above all should be there to help not hinder and should therefore always strive to be serviceable and practical.