

WeekA& Design Thin sing for Amalytics

(T2 2022)



## **Agenda**

- Recap on Week 7 topic BAM Assignment Project Exam Help
- Topicton: Pesign Thinking

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### **Business Analytics Methodology (BAM)**

• It provides managers with a process framework and a practical set of tools for developing and analysing an analysis portfolio https://powcoder.com

• The purpose of BAM approach is to support an organizational description of the purpose of BAM approach is to support an organizational description of the purpose of BAM approach is to support an organizational description of the purpose of BAM approach is to support an organizational description of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of BAM approach is to support an organization of the purpose of the purpose



### **Business Analytics Methodology (BAM)**

A top-down analysis process
 that focuses on the busines
 mode Assignment in the project E
 seeks to develop a business
 analytics development portfolioder.



 A bottom-up approach that is grounded in data, tactical work,
 model building, and technology



### **Business Analytics Methodology (BAM)**

Problem Situation Structuring
 Business and Project Examalytics power age
 Business Analytics Powerage
 Analytics Implementation



# **Problem Situation Structuring**

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# **Business Model Mapping**

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# **Business Analytics Leverage**

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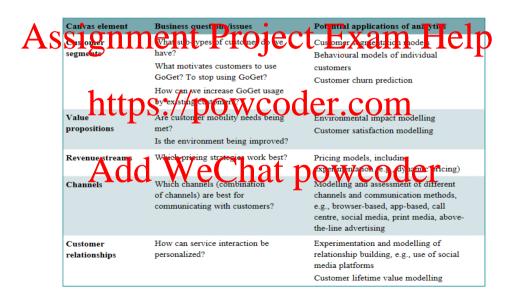
# **Opportunity Matrix**

- It uses BMC developed to identify leverage
  points for business analytics the application
  that are most likely to lead to creation of value
  and the best use of scarce resources
  https://powcoder.com
- The company of Part powers that mapped in matrix form against potential analytics applications



### **Opportunity Matrix Example - GoGet**

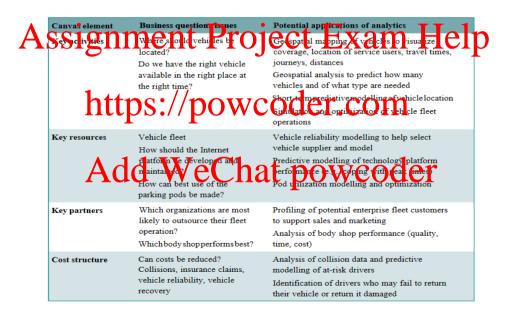
 Front-office business analytics opportunities matrix for GoGet





### **Opportunity Matrix Example - GoGet**

 Back-office business analytics opportunities matrix for GoGet





# **Analytics Leverage Matrix**

- To categorise a large number of opportunities identified in the opportunity matrix and to reduce this to a working list of potential projects
- The leverage matrix is created by considering two dimensions, i.e., perceived difficulty and potential for value creation. Together, they give four quadrants: SSIgnment Project Exam Help
  - Pauck wins: These are high-value areas where analytics can be applied to create value hittiestive power costentechniques and techniques that are tried and tested)
  - Major projects: These are also high-value areas, but they are considered more difficult to achieve Chat POWCOGET
  - Fill-ins: These are lower-value projects, but as they are not considered to be difficult to implement, they may still merit inclusion
  - Hard slogs: As these analytics projects are likely to be low in value and difficult to achieve, they are best avoided



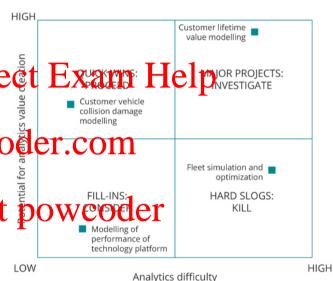
### **Analytics Leverage Matrix Example - GoGet**

 Quick wins: Building a predictive model to identify customers at high risk of causing vehicle damage

Major projects: Modelling put Projects: Modelling put

 Fill-ins: Predictive modelling of performance of technology platform (but not currently addiness echnology priority)

 Hard slogs: Optimizing the fleet through simulation models





# Assessing Project limit Holg

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# Why Design Thinking?

- Facilitate the process of integrating and embedding analytics solution into the busines of process of integration into the integration into the process of integration integration.
  - Paradigm shiftfpgrappow 'analytics world' to a 'business universe' weCh
  - Human-centred designs and outcome-oriented approach to to solve problems in a creative and innovative way

From analytics world	To business universe
A focus on building predictive models	A focus on business outcomes
Predictive models deliver "automatic"  terein to the business X a 11	Predictive models deliver capabilities - b stress prije ts deliver benefits
Return on investment (ROI) is king	Broader view of what constitutes a benefit is needed
GOG ET COM	Business value case
"Trusting the gods" to deliver benefits from analytics investments  at powcode:	Managing risk to deliver benefits; managing benefit paths beyond Completion of the project

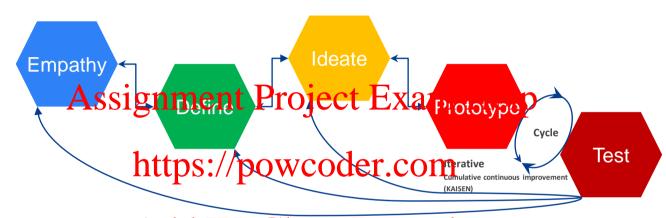


# What is Design Thinking?

- Design thinking is a holistic approach that aims for innovation in a similar manner to the way designers wouldsignment Project Exam Help
- Design thinktops is a point carity expression which we seek to understand the user, challenge assumptions daily redefine problems in an attempt to identify alternative strategies and solutions that might not be instantly apparent with our initial level of understanding



### **Design Thinking Process Flow Chart**



Persona Development Add WeChat powcoder

Leverage Matrix (Prioritise)

(Anthropology)

End User persona aims to develop a rounded view of stakeholders (i.e. people that will interact with

your analytics use case)

Diverge

A narrative storyline that aims at putting theory into practice scenarios (acting script) to identify potential problems and generate problem statements

Converge

Explore analytics opportunities with ideas generation that could translate into solutions.

Diverge

**Opportunity Canvas** 

Sort ideas and opportunities according to practical implementation/value creation and prioritise for prototyping and testing.

Converge

Tools to help operationalise DT process for Analytics



# **Empathize**

It is the foundation of a human-centred design process

# Assignment Project Exam Help The work you do to understand people, within the

- The work you do to understand people, within the context of years design whatereas
- Your effort to the way the way the power the power the power the power that the world, and what is meaningful to them



## **Empathizing: GoGet example**

- A two-day design thinking workshop, participants were provided with case study description and pre-readings in advances ignamental poject Exam Help
- A live-case session that is led by the representative from the case organization – GoGet Add WeChat powcoder
- Exploring the problem situation

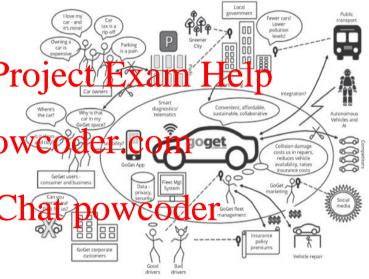


# Create a rich picture

#### Purpose

Rich picture helps to identify as a property of the project of the

It helps to identify strategic issues and priorities of an organization

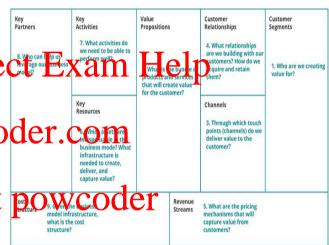


GoGet car-sharing example



### **Business Model Canvas**

- A template to define a new or existing business model. It divides the processes and internal activities of a business into nine different categories, each representing a business der block in the creation of the product or serviced WeChat
- It helps to understand value creation and value capture by the business model of an organization



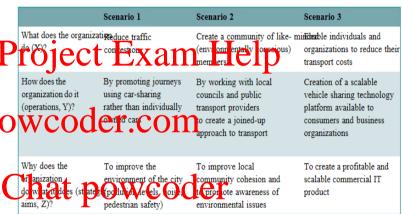


### **Construct Root Definition**

#### Purpose

A root definition is a short textual definition of the purpose assing ansmooth F system to be modelled. The root definition should tell us what the system WIPS (X), PC how it will do it (Y) and why it is meaningful for it to be done (Z).

➤ This can be encapsulated in template form as: A system to do X, by (means of) Y, in order to do Z



GoGet car-sharing example



### **Define**

- The goal is to identify a grand challenge or problem faced by the focal company/organization Assignment Project Exam Help
- It should the tap suiding state then then focuses on insights and needs of a particular user, or composite character Add WeChat powcoder



## Define a problem: GoGet example

Based on business

analytics leverage matrix:

one of the use cases Projection aimed at reducing the amount of vehicle damage caused by collesions powcode.

QUICK WINS:
PROCEED

MAJOR PROJECTS:
INVESTIGATE

AGE

Customer lifetime value modelling

MAJOR PROJECTS:
INVESTIGATE

Fleet simulation and optimization
optimization

Fluction by platform performance modelling

Analytics difficulty

HIGH

Customer lifetime value modelling

MAJOR PROJECTS:
INVESTIGATE

HARD SLOGS:
KILL

HARD SLOGS:
KILL

Analytics difficulty

HIGH

 The analytics use case can be expressed succinctly as a design challenge:

'How might we reduce the incidence of vehicle collision damage?'



### Ideation

- To generate design solutions pertinent to the challenge statement
- It represents a process of going wide, With Poncepts and outcomes. It is concerned with 'Flaring' rather than 'focushttps://powcoder.com
- It provides a large repository of diverse ideas that are the source material for building prototypes to test with users



# How might we reduce the incidence of vehicle collision damage?

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# Persona Development

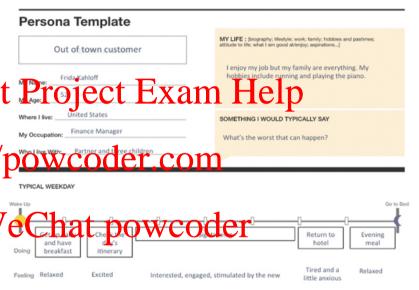
- To explore the problem in a grounded way, empathising with the customer and thinking about the problem from their perspective (e.g., progretanting of users) peeds, experiences, behaviours, and goal)
- It should be Aleke (right perpective depeople in the system (i.e., both external users, e.g., customer, or internal users, e.g., staff)



### Persona Development: GoGet example

#### Persona Part A

An out-of-town customer, Frida Kahloff, 52-year-old female with gairgnament Pi three children. She works in finance and is visiting Australia on vacation With // her family. A typical day on vacation involves A sightseeing and trips out in the Sydney area. For some of these trips Frida and her family need a car.





### Persona Development: GoGet example

• Persona Part B
In second part of the persona profile, we see that Prida is worked about dring on the left hand is deed the road, negotiang roundably is in the year, part label of company is the year, part label of the road hand of the road hand with power labels of the power labels of the power labels of the surface independently.

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### Persona Development: GoGet example

Extreme case

Stevie, a fraudulent customer who may damage cars deliberately property P

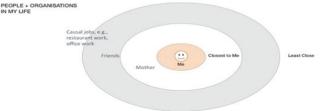




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# Storyboarding

 It communicates a concept by visualising user interactions. They use the art of the narrative to focus spitherentimes jet using ann provise service/product

- https://powcoder.comAn excellent way of visualizing the business process and universianding the impact on the customer's journey
- An effective way to prototype your service concept



### Storyboarding: GoGet example

- Storyboard Reducing vehicle collision damage
- To turn predictive analytics into actionable insight, we need to think about what to do with the output of the predictive model (the Solignment Project Exam Help



Customer is from the USA and on vacation in Sydney, Australia. They need to hire a car for a couple of days to do some sightseeing as a family unit. USA drives on the right – Australia drives on the left. Australia has roundabouts – these are very rare in the USA, Must drive clockwise around roundabout and give way to traffic from the right – the opposite to the USA. Customer does a Web search and comes across GoGet, a carsharing scheme. The reviews are good so they decide to sign up and make a booking. GoGet booking system algorithm flags customer up as high risk of having a collision and causing vehicle damage. Customer sees increased insurance excess and/or increased rental rate. Customer offered opportunity to take driving awareness online training in exchange for reduced excess.

Customer takes online training, passes, and gets reduced excess.

# **Prototyping**

 After having developed persona and storyboard (Empathy → Problem Definition → Opportunities for Assignmentg Projection Help

https://powcoder.comPrototyping can be developed through software, or build with physical materials (e.g. Blue-Tak, paper straws, cardboard, Lego) to give a tangible feel for the product or service



### **Test**

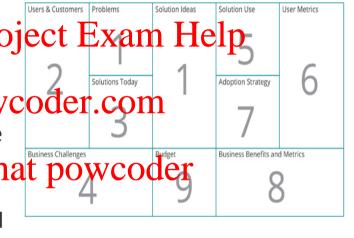
- Stakeholders can interact with prototype and provide feedback on design Assignment Project Exam Help
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  To help participants empathise more deeply with the problem situation



# From Design Thinking to Business Case - Opportunity Canvas

• To document the use case after haissignment  $Project\ Exam\ Help$  through design thinking

It provides a batters: the powcoder.com preparation of a business case and presentation of the contract of the





### **Opportunity Canvas**

Users & Customers

Problems

Solution Ideas

Solution Use

User Metrics

 Problems: what problem do users and customers have today that the solution addresses?

Solution ideas: What are that Project Exam Herps 6 product, feature, or enhancement ideas that solve problems for the target: //pow concer.com

Business Benefits and Metrics audience?

- Users and customers: Who are the users and customers that Chat powcoder have challenges that will be addressed by the solution
- Solution today: How do users address their problems today? Any alternative solutions?



### **Opportunity Canvas**

Users & Customers

Problems

Business challenge: If we don't solve these problem for our customers, how will it affect our

Solution use: What will customers do differently as a result of adopt netters in the sixty of the content of adopting the sixty of the content of adopting the sixty of the content of adopting the sixty of the content of the content of adopting the sixty of the content o and how will that benefit them?

Assignment Project Exam Help Business Benefits and Metrics

Solution Ideas

Solution Use

User Metrics

User metrics: What specific use behaviours can be measured that indicate they try, adopt and place value in the solution?



### **Opportunity Canvas**

Users & Customers

Problems

 Adoption strategy: How will customer discover and adopt the solution?

• Busines sest grannenits: Prower what business performance metrics will be affected by the success of the autips://pow

organization each of sive whech at powcoder solution is created? What might it cost if the solution is not created?

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Solution Ideas

Solution Use

User Metrics

### **Opportunity Canvas: GoGet example**

Users & Customers	Problems	Solution Ideas	How will users use your solution?	User Metrics
Users – GoGATeS S management S S Customers – GoGet Customer (vehicle driver)	Vehicles that are damaged in collisions result in expensive repair costs and reduced Solutions Today  Solutions Today  Anter Step the same, regardless of risk profile  Add Western Step the Step the same, regardless of risk profile	involved in a collision owcode	of high risk customers and prescriptive analytics	edice in the number or collisions
Repair costs are significant expense item for GoGet resulting in direct cost (bodyshop) and indirect cost (increased premiums). Customers face increased usage cost due to spreading cost of accidents across all users.		Budget	Business Benefits and Metrics  Reduction in number of collisions Reduction in repair costs Reduction in insurance premiums Change in revenue due to change in customer behavior (e.g., impact of increased excess)	
		Budget to be developed		



# Assignment Project Exam Help Questions?

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