

MAINTENANCE AND REPAIRABILITY

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FACTORS INFLUENCING DESIGN' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research complete answers to all the questions.

**ARE YOU D&T READY?
USE THE MOBILE App!!**

1

WHY IS IT IMPORTANT THAT PRODUCTS ARE DESIGNED FOR MAINTENANCE AND REPAIRABILITY?

2

HOW IS THE DESIGN PHILOSOPHY 'MAINTENANCE AND REPAIR', OPPOSITE TO PLANNED OBSOLESCENCE?

3

SELECT A PRODUCT, THAT YOU THINK IS DIFFICULT TO MAINTAIN / REPAIR. PASTE AN IMAGE OF THE PRODUCT OR SKETCH IT. EXPLAIN WHY YOU FEEL IT IS DIFFICULT TO REPAIR / MAINTAIN.

4

LIST ADVANTAGES OF PRODUCTS DESIGNED FOR MAINTENANCE AND REPAIR

5

WHAT IS REACTIVE MAINTENANCE? WHAT IS PROACTIVE MAINTENANCE?

HELPFUL LINK: http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf



DESIGN STRATEGIES

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FACTORS INFLUENCING DESIGN' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research complete answers to all the questions.

**ARE YOU D&T READY?
USE THE MOBILE App!!**

1

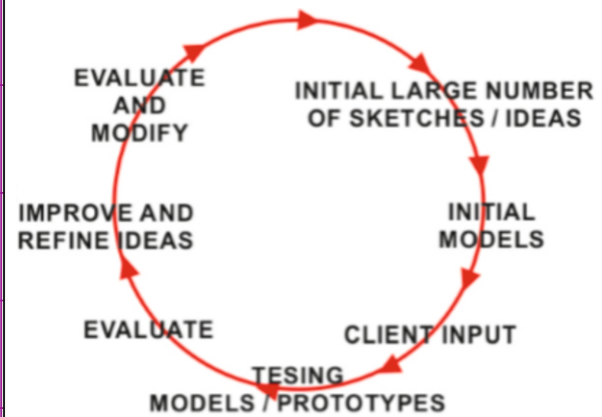
WHAT IS THE COLLABORATIVE APPROACH TO DESIGN?

2

WHAT IS USER CENTRED DESIGN?

3

NAME AND DESCRIBE THE DESIGN STRATEGY, SHOW IN THE DIAGRAM BELOW.



4

WHAT / WHO IS A LONE INVENTOR?
(include the name and example of a successful Lone Inventor)

5

DESCRIBE THE SYSTEMS APPROACH TO DESIGN

HELPFUL LINK: http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf



CUSTOMER PROFILES

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FACTORS INFLUENCING DESIGN' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf


Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research complete answers to all the questions.

**ARE YOU D&T READY?
USE THE MOBILE App!!**

1 WHAT IS A CUSTOMER PROFILE?

2 WHAT SHOULD BE CONSIDERED, WHEN BUILDING A CUSTOMER PROFILE?

3 A SPECIALIST COMPANY DESIGNING ELECTRIC GUITARS, IS PUTTING TOGETHER A CUSTOMER PROFILE. WRITE WHAT YOU THINK, WILL BE A CUSTOMER PROFILE, FOR THIS PRODUCT.



4 LIST WAYS IN WHICH CONTACT CAN BE MADE WITH POTENTIAL CUSTOMERS, BY FOCUS GROUPS.

5 HOW WOULD YOUR CUSTOMER PROFILE READ?
(Write a brief outline below)

HELPFUL LINK: http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf



FOCUS GROUPS

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FACTORS INFLUENCING DESIGN' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research complete answers to all the questions.

**ARE YOU D&T READY?
USE THE MOBILE App!!**

1 WHAT IS A FOCUS GROUP?

2 WHAT ARE THE ADVANTAGES OF USING A FOCUS GROUP?

3 IMAGINE YOU ARE DEVELOPING A NEW LED TORCH. WHAT DESIGN FACTORS WOULD YOU WANT A FOCUS GROUP TO DISCUSS?



4 IF YOU WERE TO PUT TOGETHER A FOCUS GROUP FOR THE LED TORCH, WHAT TYPE OF PEOPLE WOULD YOU INCLUDE?
(E.G. a manager, teenager.....)

5 ARE THERE SOME PRODUCTS THAT DO NOT NEED A FOCUS GROUP?
(Explain your answer)

HELPFUL LINK: http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf



MARKET RESEARCH

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FACTORS INFLUENCING DESIGN' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research complete answers to all the questions.

**ARE YOU D&T READY?
USE THE MOBILE App!!**

1

WHAT IS MARKET RESEARCH?

2

WHAT ARE THE AIMS OF MARKET RESEARCH?

3

IN TERMS OF THE 'SINCLAIR C5', WHAT WENT WRONG WITH MARKET RESEARCH?



4

DESCRIBE SOME OF THE WAYS MARKET RESEARCH CAN BE CARRIED OUT.

5

DESCRIBE ONE WAY YOU HAVE CARRIED OUT MARKET RESEARCH, FOR ONE OF YOUR PROJECTS.

HELPFUL LINK: http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf



DESIGN FIXATION

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FACTORS INFLUENCING DESIGN' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf


Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research complete answers to all the questions.

**ARE YOU D&T READY?
USE THE MOBILE App!!**

1 WHAT IS DESIGN FIXATION?

2 HOW CAN DESIGN FIXATION BE AVOIDED?

3 HOW CAN WORKING IN DESIGN TEAMS, HELP AVOID DESIGN FIXATION?



4 WHAT IS MEANT BY THE TERM, "THINKING OUT OF THE BOX"?

5 DESCRIBE ONE TECHNIQUE THAT HELPS YOU AVOID DESIGN FIXATION (E.G. discussing designs with friends)

HELPFUL LINK: http://www.technologystudent.com/mobapps/design_factors2_mobile.pdf