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| PID TEAM NAME: Bike IT  Risk Level: Medium  Version: 5 |
| Author: Amy Lai, Zunaira Arshad, Tabie Ledesma, James Throp, Adam Downing |

# Document Control

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| Document Information | |
| Date document instructed: | 1st November 2018 |

Change Control:

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| --- | --- | --- | --- | --- |
| Author | Title | Version | Date | Reason for change |
| James | User Requirement Analysis | 2 | 27/10/2018 | More research |
| Amy | Risk Analysis | 3 | 30/10/2018 | Added more risk analysis information |
| Zuni | Scope | 4 | 01/11/2018 | Added more in/out of scope |
| Tabie | Gantt Chart | 5 | 01/11/2018 | Re-made the Gantt chart with added info |

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# Team Name and Members

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| Team Name and Members – include roles |
| **Bike IT** |
| **Tabie Ledesma:** Project Manager/Design |
| **Amy Lai**: User Research/Design |
| **Zunaira Arshad:** App Developer/Design |
| **James Throp:** Statistics/User Research |
| **Adam Downing**: Deputy Project Manager/Photographer |
| **Joe Daly**: Photographer |

# Scope Statement

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| Scope Statement |
| Bike-it is a cycle secure app that owns a private area in Manchester for students to keep their bikes safe and secure without worrying about being stolen or damaged. This app provides safe and secure parking area and students can track their bike online, using the Bike-it app they can create an online account and reserve a location for their bikes. However, for the reserved place using the app it only charges costs of £1. There is an online map for the students that pinpoints to the parking area. Each user will be provided with a secure password online to the locker therefore they do not need to keep any keys as they might lose it, all the need is the unique password prearranged to them in their online app account.  With our Bike-It app, we aim to encourage people, especially students to be more active and economical when travelling within the city of Manchester. By creating this app that finds available spaces for cyclists, it will encourage them to cycle to their destinations, rather than using different modes of transport that is less economical. With our app, we want to encourage a cheaper mode of transportation, according to Fender (2015), if people choose cycling over driving or public transport, individuals will save “67p per mile” and this works out to “£98.5 million a year for greater Manchester, at current levels of cycling”. The benefits of cycling not only benefit one’s health but the economy and how they can reduce Co2 emissions into the earth. This means people will feel better about themselves because they are able to help the economy by choosing to cycle, therefore, our app will further encourage students specifically to choose this way of travelling as many students are heavily in debt and struggle with money. Cycling will allow a cheaper way of travelling. With our, app we want to ensure that cyclists can trust us to keep their bike safe when parking and finding a location because many cyclists have reported bikes stolen from unsafe security on their bikes, according to *Stolen Bikes* (2016), nearly 300,000 bikes were reported stolen and “71%” do not inform the police of the theft. |

## In Scope / Included in the project

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| Safe and secure parking |
| Free when the booking is not reserved online |
| Map and Track |
| Online account to the app/locker password |
| Login/Registration Pages |
| Distance to parking location |

## Out of Scope / Excluded from the Project

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| Other equipment’s: locks |
| Cycle Repair Shop |
| Partnerships |
| Cycle Hire |

# User Requirements Analysis

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| User Requirements Analysis |
| Summary statement:  The users who we aim our app targets will be those who live in Manchester. Cycling is one of the most used modes of transport in Manchester with “55.4 million bike trips in Greater Manchester in a year” (*Bike Life,* 2015).  The target group for the BikeIT are ages 18-30 (mainly for students), particularly focusing on young professionals and university students who cycle in and around the city. Our target group will find the app useful and get the most fulfilment out of BikeIT even though it is stated that ‘bike ownership is greatest amongst those aged 35-44 and 45-54, with 57% and 58% having at least one bike’ (*Bike Life*, 2015). The figures shown provides evidence that there is clearly a gap in the market for younger people who ride bikes in Manchester. This app will also be helpful to students based in Manchester. It’s been recorded that ‘2,300 cyclists travel up and down oxford road every day’ (Charlotte Cox, 2016, Manchester Evening Standard); this being the main road for both University of Manchester and MMU.  With BikeIT, cyclers will be able to locate where free bike spaces are around Manchester. This means that cyclists can travel straight to the available bike locks without having to cycle around to look for bike spaces, therefore saving time and energy. There are ‘over 3,000 public bike parking spaces in Greater Manchester’, however there is not currently an app that specifically targets where these bike parking spaces are and if they are free or not. Also, Manchester was the first city to introduce dock-less bikes (Mobikes) back in July 2017. However, after only one year they were all withdrawn due to theft and vandalism. As Katie de Klee noted, ‘Mobikes in Manchester have been thrown in canals, set on fire, hidden in gardens and dumped on pavements’ (Klee,2018). This emphasises the importance of the use of bike parking spaces where people can safely park and lock their bikes, in which BikeIT will help locate for them. |

# Work Breakdown List

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| --- | --- | --- |
| **Task List** | **Primary resource** | **Estimate** |
| Information Gathering – Images | Adam | 2 |
| Information Gathering - Statistics | James | 1 |
| Written Content for App | Tabie | 2 |
| Media Content – Map | Amy | 3 |
| Media Content – Logo | Tabie | 1 |
| Designing – Login Page | Zuni | 4 |
| Designing – Profile Page | Adam | 4 |
| Designing – Main Menu | James | 3 |
| Designing – Navigation | Joe | 2 |
| Designing – Registration Page | Zuni | 4 |
| Designing – Contact Page | Amy | 3 |
| Designing – About Page | Tabie | 5 |
| Style Guide / Theme | Tabie | 4 |
| Testing | Joe | 1 |

[**Link to Trello Page**](https://trello.com/b/hrVRPu1S/digital-project-management)

# Estimates, budget/resource information

A screenshot of a cell phone

Description automatically generated

# Quality Plan

Measures of Quality/ Acceptance Criteria

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| Task | Acceptance Criteria |
| Accurate information | Our prototype must include accurate factual information so that we aren’t misinforming users and publishing false facts. |
| Development of at least 5 high quality screenshots of the prototype created on photoshop | All pages of the app prototype must align and flow within the other to show cohesiveness and consistency of the brand theme. |
| Prototype must be easily understood | Make sure that all information/text used are grammatically correct and clear to avoid confusion |
| Take relevant images (cyclists, bikes, town centre) that will contribute within the app prototype | Make sure images are clear and of high quality. Must be relevant to the brand |

## Dependencies

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| Images for prototype needs to be prepared |
| Research made relevant to project beforehand |
| High quality prototypes for printing |

## Constraints (limiting factors)

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| Other team members may have other projects they are working on |
| Some team members may not have enough knowledge on software used |
| Time limit is short |

## Assumptions

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| Product prototype will be presented as high definition screenshots |
| Buying a domain will be unnecessary |
| Prototype won’t be a live launched application |

# Communication Plan

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| **Frequency / timing (monthly, stage end, etc)** | **How will the Control be reported** | **Responsibility for production** |
| Weekly | Facebook Group Chat | James |
| 2-3 days | Sharing documents via Trello | Zunaira |
| Once a week | Team Meet Up (in person) | Joe |

# Risk Analysis

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| Project Risk | Containment Measures |
| Other university projects and deadlines to be met | Plan an effective and balanced time management plan in order to complete all projects scheduled |
| Inexperienced developers | Confer with other developers who have a knowledge on the problem to fix the issue |
| Some team members may be absent and can affect the progress of the project | Inform all team members when there is an issue so that other team members can step in and help |
| Members not completing their tasks | Ensure that members are encouraging and reminding each other to do their part for the project. |

I have considered the project plan and I confirm that this project should be progressed.

Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Dated: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Project Sponsor or their representative)

**REFERENCES:**

Andrew Fender (2015), *Our Vision for the bike in Greater Manchester*, [online book] Accessed: October 29th 2018

<https://www.sustrans.org.uk/sites/default/files/bike_life_greater_manchester_2015.pdf>

Charlotte Cox (2016), *Digital counters clock up to 2,300 cyclists using Oxford Road every day*, [online] Accessed: October 23rd 2018

<https://www.manchestereveningnews.co.uk/news/greater-manchester-news/digital-counters-clock-up-2300-12359030>

Katie De Klee (2018), *Dockless bike-sharing company pulls out of Manchester due to “theft and vandalism”*, [online] Accessed: October 23rd 2018 <https://www.dezeen.com/2018/09/06/mobike-dockless-bike-sharing-manchester-vandalism-transport-design-news/>

*Stolen Bikes* (2016), *Stolen Bike Study****,*** [online] Accessed: October 28th 2018

<https://stolen-bikes.co.uk/statistics/>