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| **ICT2202 Digital Forensics** |
| AY2020/2021, Trimester 1  **USER MANUAL** |

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| **Module** | ICT2202 Digital Forensics |
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# Installation of Icarus

Icarus.apk may be downloaded from the following link: https://github.com/qiikaii/ICT2202-Icarus.  
  
Thereafter, user should install Icarus as seen in *Figure 1.1*

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| *Figure 1.1 Installation of Icarus* |

Upon launching Icarus, users must provide Icarus with permission to access the file manager.  
If not, the application will not be able to provide its service.

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| *Figure 1.2 Request of Permission from Icarus* |

If permission has been granted, a success message will popup.

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| *Figure 1.3 Success in providing permission to Icarus* |

# Icarus Feature: Analysis

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| *Figure 2.1 Home Page of Icarus* |

Users may select “*SELECT FILE TO ANALYSE*” to begin the analysis of the file system information. However, before that begins, user has to ensure that their phone must have access to the image file in the internal storage or in the external storage.  
  
Upon execution, users will be brought to the file manager to select the image that they want to analyse. From there, users should navigate to the storage that holds the image file and select it.

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| *Figure 2.2 Choosing the drive E.g. An External Drive that contains the image file* |

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| *Figure 2.3 Choosing the Image* |

Thereafter Icarus will start to process and retrieve the relevant file system information. The users can scroll down to see the information about the file system.

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| *Figure 2.4 Primary Partition Information* | *Figure 2.5 Extended Partition Information* |

# Icarus Feature: Carving

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| *Figure 3.1 Home Page of Icarus* |

Users may select “*SELECT FILE TO CARVE*” to begin the analysis of the file system information. However, before that begins, user has to ensure that their phone must have access to the image file in the internal storage or in the external storage.  
  
Upon execution, users will be brought to the file manager to select the image that they want to analyse. From there, users should navigate to the storage that holds the image file and select it.

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| *Figure 3.2 Choosing the drive E.g. An External Drive that contains the image file* |

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| *Figure 3.3 Choosing the Image* |

Thereafter Icarus will start to process and carve out the files in the image. The users can scroll down to see the information about the file and directories that are carved out.

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| *Figure 3.4 Information on the files and directories that are carved by Icarus* |

The users can go to the internal storage to find the folder “Icarus” to see the files stored in the image. They are stored according to how many partitions there are.

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| *Figure 3.5 Partitions that are Carved by Icarus* |

The users can freely explore the content as if they are accessing the image directly.

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| *Figure 3.6 Files and Directories that are Carved by Icarus* |