
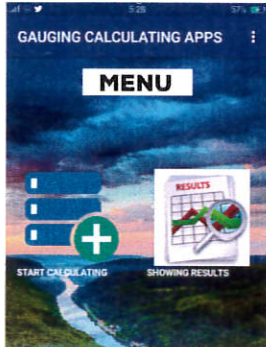


BORANG INVENTORI PROJEK PELAJAR

PERKARA	MAKLUMAT INFORMATION																
Program <i>Program</i>	DKA5B																
Jabatan <i>Department</i>	Kejuruteraan Awam																
Semester/ Tahun <i>Semester/ Year</i>	Semester 5 2017																
Tajuk Projek <i>Project Title</i>	Mobile Application For Streamflow and Stream Profile																
Jenis Projek <i>Type of Project</i>	Rekabentuk																
Kategori Kluster Penyelidikan <i>Category/ research Cluster</i>	<p>Tanda “ / ” pada yang berkenaan: Please tick “ / ” where applicable:</p> <table border="1"> <tr><td><input type="checkbox"/></td><td>Sains tulen (<i>Pure Science</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sains gunaan (<i>Applied Science</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sains sosial (<i>Social Sciences</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)</td></tr> <tr><td><input type="checkbox"/></td><td>Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)</td></tr> </table>	<input type="checkbox"/>	Sains tulen (<i>Pure Science</i>)	<input type="checkbox"/>	Sains gunaan (<i>Applied Science</i>)	<input type="checkbox"/>	Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)	<input type="checkbox"/>	Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)	<input type="checkbox"/>	Sains sosial (<i>Social Sciences</i>)	<input type="checkbox"/>	Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)	<input type="checkbox"/>	Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)	<input type="checkbox"/>	Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)
<input type="checkbox"/>	Sains tulen (<i>Pure Science</i>)																
<input type="checkbox"/>	Sains gunaan (<i>Applied Science</i>)																
<input type="checkbox"/>	Teknologi dan kejuruteraan (<i>Technology and Engineering</i>)																
<input type="checkbox"/>	Sains kesihatan dan klinikal (<i>Clinical and Health Sciences</i>)																
<input type="checkbox"/>	Sains sosial (<i>Social Sciences</i>)																
<input type="checkbox"/>	Sastera dan sastera ikhtisas (<i>Arts and Applied Arts</i>)																
<input type="checkbox"/>	Warisan alam dan budaya (<i>Natural Sciences and National Heritage</i>)																
<input type="checkbox"/>	Teknologi maklumat dan komunikasi (<i>Information and Communication Technology</i>)																
Ahli Kumpulan <i>Group member</i>	1. Name: Muhammad Luqman Hakim Bin Johar No. Identification card: 970319-01- 5261 2. Name: Nor Akmar Binti Mahmod No. Identification card: 970630-10-6668 3. Name: Wan Nurulatysha Binti Wan Yusof No. Identification card: 970521-01-5046																
Penyelia <i>Supervisor</i>	Name: Noorhaslizah Binti Ahmad Rosli No. Identification card: 810730-12-5038																
Penyelia Bersama <i>Co-Supervisor</i>	1. Name: Nur Hidayah Binti Mohamad No. Identification card: 800503-11-5244																
Abstrak <i>Abstract</i>	<p>This project is created to facilitate measurement the river, especially the Department of Irrigation and Drainage for measurement work. The objective of this project is to create an application for data computation and to know the stream section of 'GCApps Streamflow' which is able to please the party to fill the data taken during the course to get the stream count of the river. To find out the effectiveness of this application, a questionnaire was given to the hydrology parties. Some of the scope of the study have been set, to measure the river with the parties to obtain the velocity, area of cross-section and some other data to produce the overall value of the river flow rate. The application is equipped with features that meet the criteria for finding river measurement data exactly as the manual using the software used by The Department Of Irrigation and Drainage (JPS) before. The application is also designed to reduce time to obtain data and also reduce the workforce in calculating and recording data during river measurements. The app is also interesting and very efficient to those who use it.</p>																

Keyword <i>Keyword</i> (max 5 word)	Streamflow, Hydrology, Stream Gauging, Mobile Application and Stream Profile
Objektif Projek <i>Project Objectives</i>	<p>The objectives of this study are:</p> <ol style="list-style-type: none"> To create mobile application that help in getting the streamflow and 2D image of the river. To identify the effectiveness in time of processing the data using the application by distribution of questionnaires to the Department of Irrigation and Drainage (JPS).
Skop Projek <i>Project scope</i>	<p>From this case study, the data of the river will be taken at the river in the Selangor to measure the river streamflow. The studies involve stream profile. An upgrade is needed to make the measurement of streamflow faster and more efficient. The upgrade can be make by using mobile application and can directly get the 2D drawing of the streamflow for that area. It will be different from the ordinary method. The example of the manual method such as current meter, floating method and using boat are still be using. In this case, we will minimize the time to get the streamflow and make it quicker to get the data. The data will also be friendly and clear to understand. The application can also be bring to the site easily so that the streamflow and stream profile will be process just after all the data from the river has been collected.</p>
IP No	
Dapatan <i>Finding</i> (500 words max)	<ol style="list-style-type: none"> According to the data that collected, majority of the respondents support the mobile application for stream flow and stream gauging. This statement is already proven by the calculated data. This questionnaire also proved that the objectives of making this application and its function is successfully achieved. There are 74% of respondents choose excellent on both questions. While 21% tick the satisfied and another 5% choose moderate. This pie chart shows that all respondents agreed that this application is very helpful in finding the real data stream flow and showing the image of the river in the form 2D very clearly. This supports the first objective of establishing applications for stream flow data and displaying river imagery. The conclusion is the first objective is successfully achieved as we target.
Cadangan untuk kerja-kerja akan datang <i>Suggestion for future work</i> (500words)	<ol style="list-style-type: none"> GCApps Stream flow and Stream gauging can be used for IOS For this time, the mobile application just can be download and install by the Android user. But, this application is recommended can be used by the IOS to make easier for the IOS user to calculated data just the Android user did. The view of river will be shown in 3D To give more impacts and the real view for the user, the view of the data is recommended can be shown in 3D view instead of 2D make sure the application can display a clearer image of river and in more understandable form. The application can be used to find final discharge for all places that needed not only specified for river. This application can be used to find the discharge of the drains, drainage paddy field and at all the places that needed instead of only find discharge for the river.

<p>Gambar berkaitan projek</p> <p><i>Picture related to project (700kb)</i></p>	 <p style="text-align: center;"><i>Figure 1</i></p>	 <p style="text-align: center;"><i>Figure 2</i></p>
<p>Rating/Level</p>	<p>Jabatan/ Politeknik/ Kebangsaan/ Antarabangsa Departments / Institutes / National / International</p>	

** Borang ini perlu diisi oleh pelajar dan dihantar kepada penyelia/ penyelaras projek dalam bentuk hardcopy dan softcopy (borang LAMPIRAN J dan gambar hasil projek dalam format jpeg/bitmap) bersama laporan akhir dan hasil projek.*