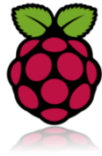
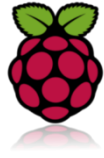


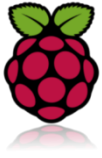
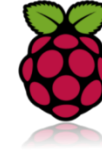
**THE RASPBERRY PI
INITIATIVE**



PLANNING THE PROJECT					
B1.1 create a software project plan by producing a software scope document and determining the tasks, deliverables, and schedule (C)	Create a project plan that will outline: -the tasks that need to be accomplished -the final end results (the deliverables) -the schedule of when each task should be completed	Project plan outlines scope, tasks, deliverables and schedule with limited clarity and depth	Project plan outlines scope, tasks, deliverables and schedule with some clarity and depth	Project plan outlines scope, tasks, deliverables and schedule with considerable clarity and depth	Project plan outlines scope, tasks, deliverables and schedule with a high degree of clarity and depth
MANAGING AND COLLABORATING ON THE PROJECT					
B1.4 use an appropriate project management tool (eg: Gantt chart, PERT chart, calendar) to manage project components (C)	Using a Gantt Chart or Pert Chart to manage the project components and their timelines	Project management tool manages and organizes project deadlines with limited effectiveness	Project management tool manages and organizes project deadlines with some effectiveness	Project management tool manages and organizes project deadlines with considerable effectiveness	Project management tool manages and organizes project deadlines with a high degree of effectiveness
B1.7 demonstrate the ability to use shared resources to manage source code effectively and securely (eg: organize software components using shard files and folders with timestamps, and proper version control) (C)	Share all documents and resources using a digital document sharing service (Google docs, Dropbox, others)	Documents and resources are shared with limited effectiveness using a digital document sharing service	Documents and resources are shared with some effectiveness using a digital document sharing service	Documents and resources are shared with considerable effectiveness using a digital document sharing service	Documents and resources are shared with a high degree of effectiveness using a digital document sharing service
COMPLETING THE PROJECT					
A4.1 work independently, using support documentation (eg: IDE Help, tutorials, websites, user manuals), to resolve syntax issues during software development (TI)	Use online tutorials, websites, user manuals and other resources to complete the project	Uses support documentation with limited applicability and effectiveness	Uses support documentation with some applicability and effectiveness	Uses support documentation with considerable applicability and effectiveness	Uses support documentation with a high degree of applicability and effectiveness
A4.2 develop and implement a formal testing plan (eg: unit testing, integration testing, regression testing) for a software project to ensure program correctness (C)	Once you are nearing the end of your project, create a formal testing plan that will ensure program correctness	Development and implementation of formal testing plan demonstrates limited clarity and depth	Development and implementation of formal testing plan demonstrates some clarity and depth	Development and implementation of formal testing plan demonstrates considerable clarity and depth	Development and implementation of formal testing plan demonstrates a high degree of clarity and depth
CLOSING THE PROJECT					
A4.3 create fully documented program code according to industry standards (eg: doc comments, docstrings, block comments, line comments) (C)	Create and use code that is documented according to industry standards	Code is documented with limited clarity and depth	Code is documented with some clarity and depth	Code is documented with a considerable clarity and depth	Code is documented with a high degree of clarity and depth
A4.4 create clear and maintainable external user documentation (eg: Help files, training materials, user manuals) (C) B1.3 produce the software according to specification (ie: code, test, deploy), and create user documentation and training materials (C)	Create a user's guide; a how-to guide that outlines how someone could reproduce your project	Users guide demonstrates limited clarity, accuracy and precision that would allow the project to be reproduced	Users guide demonstrates some clarity, accuracy and precision that would allow the project to be reproduced	Users guide demonstrates considerable clarity, accuracy and precision that would allow the project to be reproduced	Users guide demonstrates a high degree of clarity, accuracy and precision that would allow the project to be reproduced
B1.5 close the project (ie: confirm that software meets all user requirements, deliver software in appropriate format, plan software support and maintenance) (C)	Present the project to the class, outlining the project plan and goals, and how each were met	Project plan is followed and goals were met with limited success	Project plan is followed and goals were met with some success	Project plan is followed and goals were met with considerable success	Project plan is followed and goals were met with a high degree of success
B1.2 develop the software product according to the project plan (ensure that the software meets end user needs, functions as intended, and can be produced within quality standards, budget, and timelines) (A)	The project is completed to a satisfactory degree according to the project plan (it meets end user needs and quality standards, functions as intended, includes appropriate complexity and is completed according to timelines provided)	Product demonstrates limited complexity, quality standards, fulfillment of end users needs and/or functions with limited success	Product demonstrates some complexity, quality standards, fulfillment of end users needs and/or functions with some success	Product demonstrates considerable complexity, quality standards, fulfillment of end users needs and/or functions with considerable success	Product demonstrates a high degree of complexity, quality standards, fulfillment of end users needs and/or functions with a high degree of success



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FINAL REPORT					
B1.6 review the management of the project (eg: compare the plan to actual performance, outline successes, make recommendations for improvement) and prepare a report in an appropriate format (T1)	Create a report that outlines the management of the project including stop, start and continue recommendations	Review of the project management demonstrates limited insight and resourcefulness	Review of the project management demonstrates some insight and resourcefulness	Review of the project management demonstrates considerable insight and resourcefulness	Review of the project management demonstrates a high degree of insight and resourcefulness
B2.3 reflect on, and asses, team and individual progress during the project review B2.2 demonstrate the ability to meet project goals and deadlines by managing individual time during a group project B2.1 demonstrate the ability to contribute, as a team member, to the planning, development, and production of a large software project(T1)	Reflect on and assess team and individual progress throughout the project	Reflection and assessment of team and individual progress demonstrates limited insight and resourcefulness	Reflection and assessment of team and individual progress demonstrates some insight and resourcefulness	Reflection and assessment of team and individual progress demonstrates considerable insight and resourcefulness	Reflection and assessment of team and individual progress demonstrates a high degree of insight and resourcefulness
D3.1 explain the impact of a variety of emerging technologies on various members of society and on societies and cultures around the world and on the economy D3.2 investigate an emerging technology and produce a report using an appropriate format (eg: technical report, website presentation software, video) (T1)	Create a report that outlines what the raspberry pi is and how it could be used to have a positive impact on less fortunate societies and cultures around the world	Demonstrates limited understanding of emerging technology and its impact on societies and cultures.	Demonstrates some understanding of emerging technology and its impact on societies and cultures.	Demonstrates considerable understanding of emerging technology and its impact on societies and cultures.	Demonstrates a high degree of understanding of emerging technology and its impact on societies and cultures.