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Workbook

WA2a

Research Web System Tools to Build a Dynamic Website

ICT50611 Diploma of Website Development

TAFE Queensland Brisbane

|  |  |
| --- | --- |
| **Student Name:** |  |
| **Student Number:** |  |

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**Update your Contents**

Don’t forget to update your Contents before submitting your Workbook. The easiest method to update the Contents is to highlight the Contents > right click > select Update Field > select Update entire table.

# Select Web System Tools

You must provide comprehensive written recommendations for appropriate web system tools to design and build your proposed website. Specifically, you must compare and contrast the following categories of web system tools and make an informed recommendation as to which specific tool (e.g., which eCommerce platform, which website hosting provider, which online payment solution, etc.) from each category is most appropriate to design and build your proposed dynamic website. **Complete the tables below. Add more tables or rows to your tables, if required.**

**\*\*Note that it is your responsibility to refer to the wa1 Assessment Instructions for details of all assessment requirements for this section.**

## Version Control

### Version Control Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | git | |
| **URL of official website** | https://git-scm.com | |
| **Brief description** | Git is the most commonly used version control it allow developer to commit to a repository online | |
| **List of features** | Every one of the developers that are working on the site can have their own copy of the site.  So, each developer can make different changes to the site. | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** | It the most commonly used version control in programming | |
| **System Requirements** | The latest version of git is (**2.16.2**) **64-bit** | |
| **Advantages v Disadvantages** | Advantage  Git is free | Disadvantage  Steep learning curve  Binary files ae big no |

### Version Control Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | github | |
| **URL of official website** | https://github.com | |
| **Brief description** | Github is the most common online repository holder the | |
| **List of features** | It has public repository so developer can show of there code and it has private repository so only chosen developer can access the repository. | |
| **Details of associated cost** | Free for public but a private repository can cost up to $25 per month. | |
| **Industry standards (if applicable)** | Most common | |
| **System Requirements** | Internet and a github account | |
| **Advantages v Disadvantages** | Advantage  Public virion is free  Easy to collaborate a single project  Use git | Disadvantage  Have to pay for a private account  Steep learning curve |

### Version Control Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | subversion. Apache. | |
| **URL of official website** | https://subversion.apache.org/ | |
| **Brief description** | Apache Subversion is a full-featured version control system | |
| **List of features** | Copying, deleting, and renaming are versioned.  Atomic commits.  File locking. | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** | Not really used to often | |
| **System Requirements** | [1.9.7](https://subversion.apache.org/download.cgi?Preferred=http%3A%2F%2Fwww-eu.apache.org%2Fdist%2F#recommended-release) is the recommended version | |
| **Advantages v Disadvantages** | Advantage  Atomic commits | Disadvantage  Not widely used |

### Version Control Tool Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | github |
| **Identified tasks tool should accomplish** | Can save my project to the site |
| **Expected level of difficulty using tool** | Using the GitHub desktop version it can a lot easier to commit to GitHub |
| **Reasons tool is not required (if applicable)** |  |

## Database Management System

### Database Management System Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | mysql | |
| **URL of official website** | https://www.mysql.com/ | |
| **Brief description** | MYSQL is relational database management system based on SQL | |
| **List of features** | Mysql can use triggers updatable views sub select queries | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | 5.7.12 | |
| **Advantages v Disadvantages** | Advantage  Easy to use  It’s open-source | Disadvantage  It straggles on a large scale |

### Database Management System Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | Oracle | |
| **URL of official website** | https://www.oracle.com | |
| **Brief description** | Oracle Database is an RDMS | |
| **List of features** | Supports SQL | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** | Used in more large-scale projects | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Improved performance  Versatility can be used on large projects | Disadvantage  Difficult to learn  Can coast money |

### Database Management System Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | PostgreSQL | |
| **URL of official website** | https://www.postgresql.org/ | |
| **Brief description** | PostgreSQL is a powerful, open source object-relational database system | |
| **List of features** | User-defined types.  Table inheritance.  Sophisticated locking mechanism.  Foreign key referential integrity.  Views, rules, subquery. | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  User difined types  Free  Can be used on many platform | Disadvantage |

### Database Management System Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | MYsql |
| **Identified tasks tool should accomplish** | I will use MYSQL to run my data base |
| **Expected level of difficulty using tool** | There is a learning curve |
| **Reasons tool is not required (if applicable)** |  |

## Server Side Programming Language

### Server Side Programming Language 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | php | |
| **URL of official website** |  | |
| **Brief description** | PHP (recursive acronym for PHP: Hypertext processor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML. | |
| **List of features** | It allows connection between the database | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | Xammp and code editor | |
| **Advantages v Disadvantages** | Advantages  Open source  Can be run on many platforms | Disadvantages  Not suitable for large projects |

### Server Side Programming Language 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | java | |
| **URL of official website** | https://java.com/en/download/ | |
| **Brief description** | Java is a computer programming language. It enables programmers to write computer instructions using English-based commands instead of having to write in numeric code | |
| **List of features** | Syntax based of C++ can be used on all three main platforms | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | Need to download java | |
| **Advantages v Disadvantages** | Advantage  Short learning curve  free | Disadvantage  Not will optimized |

### Server Side Programming Language 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | python | |
| **URL of official website** | https://www.python.org/ | |
| **Brief description** | Python has top the charts in the recent years over other programming languages like C, C++ and Java and is widely used by the programmers. | |
| **List of features** | The Python language has diversified application in the software development companies such as in gaming, web frameworks and applications, language development | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | Python 3.6.4 is the latest version of python | |
| **Advantages v Disadvantages** | Advantage  Uses other languages like java c, C++ | Disadvantage  Slow speed of execution  Can be a learning curve |

### Server Side Programming Language Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | PHP |
| **Identified tasks tool should accomplish** | I will use PHP for connecting my data base to Clint side |
| **Expected level of difficulty using tool** | There is a learning curve |
| **Reasons tool is not required (if applicable)** |  |

## Domain Name Registration

### Domain Name Registrar 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | Crazy domain | |
| **URL of official website** | www.crazydomains.com.au | |
| **Brief description** | Crazy domain is Australian domain hoster dns hoster | |
| **List of features** | The offer mulitable domain email hosting and ssl certificates and dns hosting | |
| **Details of associated cost** | 12.49 per year for .com | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Cheap  Offer ssl certificates | Disadvantage  There email and ssl certificates are in separate payments |

### Domain Name Registrar 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | godaddy | |
| **URL of official website** | https://au.godaddy.com/ | |
| **Brief description** | Godaddy is one of the biggest Domain and website hosting | |
| **List of features** | Have a large rang off domain to choose from .com .net .org etc | |
| **Details of associated cost** | 0.99 new domain | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Cheap for the first year | Disadvantage  goes up in price after one year |

### Domain Name Registrar 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | Digital pacific. | |
| **URL of official website** | https://www.digitalpacific.com.au | |
| **Brief description** | Digital pacific is Australian owned domain register and web hosting | |
| **List of features** | It allow domain email account  Subdomain  Daily backups | |
| **Details of associated cost** | .24.95 for 2 years | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Australian owned | Disadvantage |

### Domain Name Registrar Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | Digital pacific. |
| **Identified tasks tool should accomplish** | I will use it as a domain register and a hosting provider |
| **Expected level of difficulty using tool** |  |
| **Reasons tool is not required (if applicable)** |  |

## Website Hosting Provider

### Website Hosting Provider Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | goDaddy | |
| **URL of official website** | https://au.godaddy.com | |
| **Brief description** | GoDaddy is one of the biggest Domain and website hosting | |
| **List of features** | Unlimited websitesºº  Unlimited storage  Unmetered bandwidth  Free Microsoft Office 365 Business Email – 1st year  Free domain\* with annual plan  New - PHP 7.0, 7.1 | |
| **Details of associated cost** | $13.99 | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Allow php 7.0.7.1 | Disadvantage |

### Website Hosting Provider Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | TMDHosting | |
| **URL of official website** | https://www.tmdhosting.com | |
| **Brief description** | TMD hosting is American owned host provider but they to have datacentre in Australia | |
| **List of features** | They offer a free domain with all their packages,  They have several host options (webhosting, cloud hosting, WordPress hosting ) | |
| **Details of associated cost** | 9.99 month | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage | Disadvantage |

### Website Hosting Provider Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | Digital pacific. | |
| **URL of official website** | https://www.digitalpacific.com.au | |
| **Brief description** | Digital pacific is Australian owned domain register and web hosting | |
| **List of features** | It allow domain email account  Subdomain  Daily backups | |
| **Details of associated cost** | .7.74 on a 3 year plan | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | It support all version php 5 | |
| **Advantages v Disadvantages** | Advantage  Offer ssl certifc | Disadvantage |

### Website Hosting Provider Tool Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | Digital pacific |
| **Identified tasks tool should accomplish** | Stained 7.99-month personal hosting plans |
| **Expected level of difficulty using tool** | Easy |
| **Reasons tool is not required (if applicable)** |  |

## DNS Hosting

### DNS Hosting Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | Crazy domain | |
| **URL of official website** | www.crazydomains.com.au | |
| **Brief description** | Crazy domain is Australian domain holster DNS holster | |
| **List of features** | The offer multilabel domain email hosting and ssl certificates and dns hosting | |
| **Details of associated cost** | They have free version when you host a site with them but also have a premium version at 19.95/yr | |
| **Industry standards (if applicable)** | ave more domain to will make it easier for user to find your site | |
| **System Requirements** | Hosting with crazy domain | |
| **Advantages v Disadvantages** | Advantage  Cheap  Australian owned  Come with your hosting | Disadvantage |

### DNS Hosting Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | Digital pacific. | |
| **URL of official website** | https://www.digitalpacific.com.au | |
| **Brief description** | Digital pacific is Australian owned domain register and web hosting | |
| **List of features** | It free when you host with digital pacific | |
| **Details of associated cost** | 7.99 month | |
| **Industry standards (if applicable)** | Have more domain to will make it easier for user to find your site | |
| **System Requirements** | Host with Digital pacific. | |
| **Advantages v Disadvantages** | Advantage  Cheap  Australian owned  Come with your hosting | Disadvantage |

### DNS Hosting Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | Dns madeeasy. | |
| **URL of official website** | https://dnsmadeeasy.com/? | |
| **Brief description** | Mns made easy | |
| **List of features** | 10 Domains  400 Records  5M Queries /month  Two Factor Auth  SLA-backed | |
| **Details of associated cost** | 29.95 month is there cheapest plan | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | Need to by a domain from a domain provider | |
| **Advantages v Disadvantages** | Advantage  two factor authentication | Disadvantage |

### DNS Hosting Tool Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | I will still use Digital pacific. |
| **Identified tasks tool should accomplish** | Digital pacific will provide all domain web host dns and SSL Certificate Authority |
| **Expected level of difficulty using tool** | Easy |
| **Reasons tool is not required (if applicable)** |  |

## Server Health Monitoring

### Server Health Monitoring Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | paessler | |
| **URL of official website** | https://www.paessler.com/ | |
| **Brief description** | Paesister is basic server health monitoring | |
| **List of features** | Ip monitoring database monitoring  Update & patch monitoring bandwidth monitoring etc | |
| **Details of associated cost** | Free – with 100sensors and up to $60,000 with unlimited sensors | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Can be used in several languages  Lost of different mounting services  More cheaper options | Disadvantage |

### Server Health Monitoring Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | solarwinds. | |
| **URL of official website** | https://www.solarwinds.com/free-tools/server-health-monitor | |
| **Brief description** | SolarWinds Orion® Network Performance Monitor (NPM) is the company’s product for the monitoring and measurement of overall performance in medium and large sized network infrastructures | |
| **List of features** | Monitor hardware status and performance of up to 5 servers  Receive alerts on critical hardware components such as fan speed, temperature, power supply, CPU, battery and more  Monitor Dell® PowerEdge, HP ProLiant, IBM eServer xSeries servers, and VMware ESX/ESXi hypervisor  Supports SNMP, WMI, and CIM | |
| **Details of associated cost** | $4,215 but is afree | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage | Disadvantage  expencive |

### Server Health Monitoring Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | monitis. | |
| **URL of official website** | https://www.monitis.com | |
| **Brief description** | Monitor.Us is a cloud-based free server monitoring tool from TeamViewer | |
| **List of features** | website uptime and response time, Server health, Network performance, Custom metrics,  instant alerts, real-time view, interactive chats reports | |
| **Details of associated cost** | There is a free and premium | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage | Disadvantage |

### Server Health Monitoring Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | paessler |
| **Identified tasks tool should accomplish** | Too see you comes to my site |
| **Expected level of difficulty using tool** | Meadium |
| **Reasons tool is not required (if applicable)** |  |

## Online Payment Solution

### Online Payment Solution Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | Pay pal | |
| **URL of official website** | https://www.paypal.com | |
| **Brief description** | Pay pla process the payment, of the customer and send it to the business | |
| **List of features** | Keeps all financial details protected  Instant send the share off the payment directly to the business | |
| **Details of associated cost** | 2.9% every transaction $30 per month on the website | |
| **Industry standards (if applicable)** | Is the most common payment gate way | |
| **System Requirements** | Need have busses PayPal count and all customer need a PayPal account | |
| **Advantages v Disadvantages** | Advantage  It very well known  Easy to use | Disadvantage  Lack of good customer service  How’s monthly fee to the website |

### Online Payment Solution Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | stripe | |
| **URL of official website** | https://stripe.com/ | |
| **Brief description** | Stripe process the payment, of the customer and send it to the business | |
| **List of features** | Allow online payment between a customer and a business at the same right for all cards | |
| **Details of associated cost** | 2.9% + 30C per transaction | |
| **Industry standards (if applicable)** | It’s becoming more and more popular | |
| **System Requirements** | Need create an account with Stripe | |
| **Advantages v Disadvantages** | Advantage  accept apple pay  does not charge extra for internasal cards | Disadvantage  not as well know out side of the development community |

### Online Payment Solution Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | Square | |
| **URL of official website** | https://squareup.com/au | |
| **Brief description** | Square process the payment, of the customer and send it to the business | |
| **List of features** | Direct customer feedback, sales reporting and analytics  Invoices and recurring payment, real-time inventory management | |
| **Details of associated cost** | 2.2% of any t online raction | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Busses can all so use square in there store | Disadvantage  Not as well-known as other online payments |

### Online Payment Solution Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | Stripe |
| **Identified tasks tool should accomplish** | User can pay for there acces to the site |
| **Expected level of difficulty using tool** | Easy |
| **Reasons tool is not required (if applicable)** |  |

## SSL Certificate Authority Tools

### SSL Certificate Authority Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | digicert. | |
| **URL of official website** | https://www.digicert.com/ssl-certificate/ | |
| **Brief description** | It offers a ssl certifiactr | |
| **List of features** | Award-winning customer support  Compatible with all major browsers and mobile devices  Displays the green address bar  Secures unlimited subdomains | |
| **Details of associated cost** | $157-$535 | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage | Disadvantage  Does not have Australian site  It only available in USA |

### SSL Certificate Authority Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | Global sign | |
| **URL of official website** | https://www.globalsign.com/en/ssl-information-center/what-is-an-extended-validation-certificate/ | |
| **Brief description** |  | |
| **List of features** | GlobalSign's SSL Certificates offer the strongest encryption and value-add features to ensure your website is protected and meets the demands of today's modern sites. Customers and visitors to your site will know that their browsing session is safe, and that payment details and personal information is kept secure and encrypted. | |
| **Details of associated cost** | 599 | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage | Disadvantage |

### SSL Certificate Authority Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | Digital pacific. | |
| **URL of official website** | https://www.digitalpacific.com.au | |
| **Brief description** | Digital pacific is Australian owned domain register and web hosting | |
| **List of features** | 256-BIT ENCRYPTION  TRUSTED SITE SEAL  DOMAIN VALIDATION  PADLOCK ON SITE  15 MINUTE DELIVERY | |
| **Details of associated cost** | 49-249 per year | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Has there plan depending on what you need | Disadvantage |

### SSL Certificate Authority Tool Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | Digital pacific. |
| **Identified tasks tool should accomplish** | Make my site look more secure |
| **Expected level of difficulty using tool** | easy |
| **Reasons tool is not required (if applicable)** |  |

## Website Analytics Tools

### Website Analytics Tool 1

|  |  |  |
| --- | --- | --- |
| **Tool name** | facebook | |
| **URL of official website** | https://www.facebook.com/help/794890670645072 | |
| **Brief description** | free, built-in feature available for your company’s Facebook page | |
| **List of features** | It can be used to see whom your posts are reaching, who’s liking your posts, and where your visitors are coming from. You can also see data on how your page’s performance is trending over time and how visitors are engaging with your content. | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** | A Facebook page | |
| **Advantages v Disadvantages** | Advantage  User can leave commits on the website with out going into Facebook itself | Disadvantage  It can look messy |

### Website Analytics Tool 2

|  |  |  |
| --- | --- | --- |
| **Tool name** | Google analytics | |
| **URL of official website** | https://www.google.com/analytics/#?modal\_active=none | |
| Brief description | Google Analytics tracks web traffic to your site and collects data, such as keywords, that can be used to help improve your visitors’ online experience. | |
| **List of features** | Tracks keywords the user use to find the site  Get reports and information about what user have clicked on | |
| **Details of associated cost** | free | |
| **Industry standards (if applicable)** | Very common tool | |
| **System Requirements** | A google account | |
| **Advantages v Disadvantages** | Advantage  Free  Tracks user information  Easy to use | Disadvantage |

### Website Analytics Tool 3

|  |  |  |
| --- | --- | --- |
| **Tool name** | moz | |
| **URL of official website** | https://moz.com/ | |
| **Brief description** | With Moz, you can track keywords by campaign or location, see how you rank on both desktop and mobile devices, | |
| **List of features** | The SEO toolset that's got it all: keyword research, link building, site audits, and page optimization insights, in one. | |
| **Details of associated cost** | Professional coast 179/year | |
| **Industry standards (if applicable)** |  | |
| **System Requirements** |  | |
| **Advantages v Disadvantages** | Advantage  Has a 30 day free trail | Disadvantage  It coast money |

### Website Analytics Tool Recommendation

|  |  |
| --- | --- |
| **Tool required for this project?** | ☐ Yes ☐ No |
| **Recommended tool name** | Google analytics |
| **Identified tasks tool should accomplish** |  |
| **Expected level of difficulty using tool** | Easy |
| **Reasons tool is not required (if applicable)** |  |