



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING-IOT Including CS&BCT

**COURSE NAME : 19SB602 FULL STACK DEVELOPMENT FOR NEXT
GENERATION IOT**

III YEAR / VI SEMESTER

**Unit IV- INTEGRATION OF NG IoT WITH WEB
DEVELOPMENT**

Topic :Concept of DOMAIN



Domain name is the part of **your online address** and your **visitors will use it to find you easily.**

For example, **google** domain name is **google.com.**

Your domain name is **unique** to you.

Once you have **registered** it, nobody else can **register the same one if you continue to renew it.**



Registering a domain name can be **easy** because you can select whatever name you want, but what you choose is **important** for your business future or your blogging website.

Rule 1 – Choose a **domain name** that can be **your brand name**, if required.

Rule 2 – If you have the **financial possibilities**, then you can purchase domains with various **extensions such as .com, .net, .info, .biz, etc.**

Rule 3 – You must ensure that this **domain name** is **not a trademark or is copyrighted.**

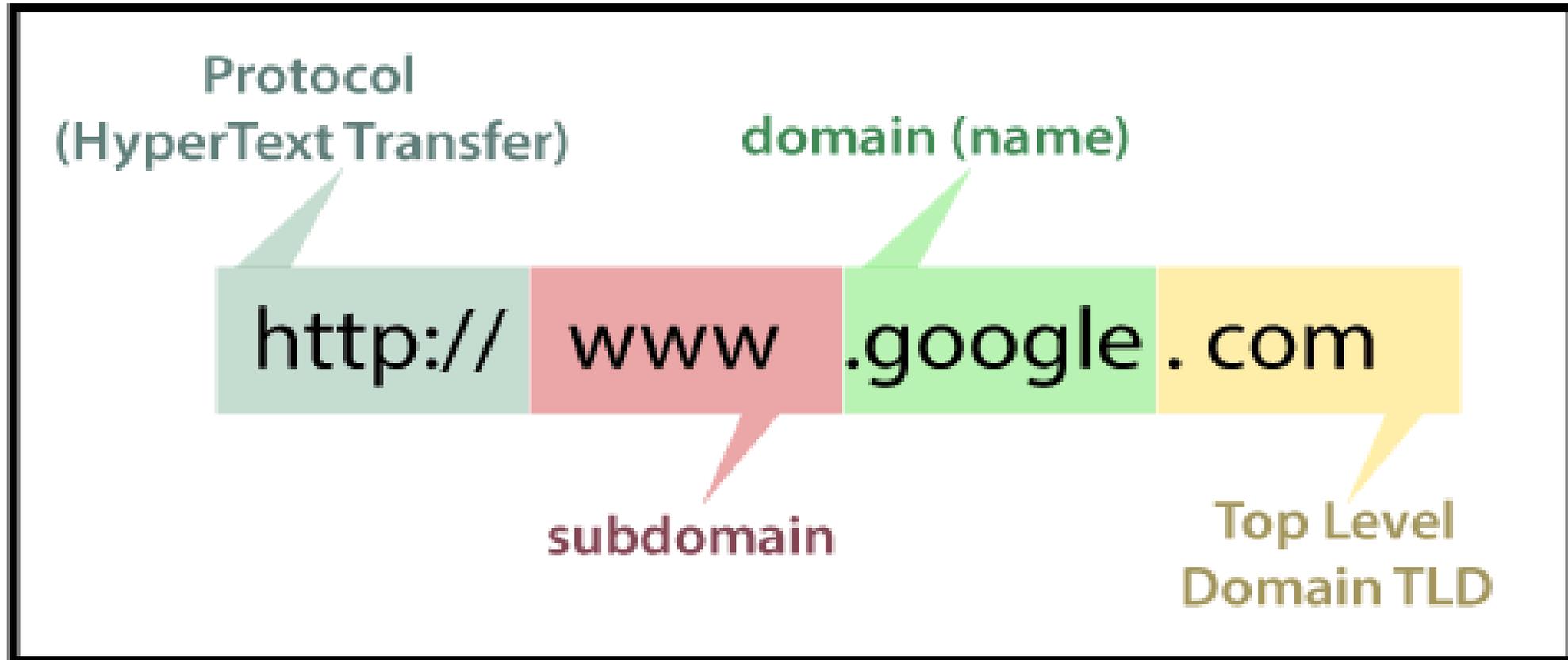


Rule 4 – Find a **short domain name**. The **lesser the characters** in a domain name, the **easier it is to type**, to say, to share and to get shortlisted on social media platforms and in search results.

Rule 5 – **Extensions are suffixes**, such as **.com** or **.net**, at the end of the web addresses. These can have specific use, so ensure to choose an extension that works for your business. The **.com domain extension** is by far the most popular

Rule 6 – If your domain name is not going by the brand name, then at least you should **use specific keywords** which describes your business, for example, **snsourseware.org**. It helps **improve your rank on search engines** (which increases traffic) and it also makes more sense to your customers.

Uniform Resource Locator(URL)





Domain Name Extensions

First domain type is **Top Level Domain (TLD)**.

These top level domains include any extensions which contain only one suffix — for example, .net, .info, .biz and so on.

Second Level Domains (2LDs)

-Are domain names containing **one more level after the .com or .co suffix**.

For example, .com.au is a second level domain style as it contains an additional suffix after the .com that shows the **website originates** in Australia.



A gTLD is a Generic Top-Level Domain

It includes addresses like – **.marketing, .estate, .fashion and .photography.**

This is a booming segment which is very popular recently and there is a huge range to choose from, whatever your industry!

CcTLDs are Country Code Top-Level Domains

It Usually restricted to **certain countries**. These are domains like **.au, .uk, .ae, .us, etc.**



Extension also has a meaning. The meanings of some top-level domains are listed as follows

.com – commercial – This is an open TLD; **any person or entity is permitted to register** and it is always the main TLD.

.org – organization – This is an open TLD; any person or entity is permitted to register.

But, it is **originally intended for use by any non-profit organizations.**

But as of now, there are no such restrictions and the .org domain name is being used by numerous organizations.



.net – network – This is an open TLD; any **person or entity** is **permitted to register**.

It was originally intended for use by domains pointing to a **distributed network of computers**, or "Umbrella" sites that act as a portal to a set of smaller websites.

.edu – education – This TLD is limited to **specific higher educational institutions** such as, but not limited to, **trade schools and universities**.



.mil – military – The .mil TLD is limited to use by the **United States military**.

.arpa – Address and routing – It is for **Advanced Research Projects Agency** in the early days on the Internet,

.arpa is now exclusively used as an **Internet infrastructure TLD**.



Domain Name Registration

To register a domain name involves registering the name you want with an organization **called ICANN** through a **domain name registrar**.

Internet Corporation for Assigned Names and Numbers (ICANN)

For example, if you choose a name like "**mydomain.com**", you should go to a **registrar**, **pay a registration fee** that costs around **10 USD** per year for that name.

That will give you the right to the domain name for a year. You should **renew it annually** for the same amount per annum.



Some of the biggest registrars where you can register your domain are given below –

GoDaddy - with the URL <https://uk.godaddy.com>

Name – with the URL <https://www.name.com/>

iPage – with URL <https://www.ipage.com>

BlueHost – with URL <https://www.bluehost.com/>

Hostgator – with URL <https://www.hostgator.com/>

let us see step by step how to register a domain name at GoDaddy.

Firstly, we should choose our domain name and see if it is free for purchase.



In my case, I wrote “tutorialspoint.com” and clicked “Search Domain”.





As you can see in the results that are in the following screenshot, this domain is already taken and it is not free. Then GoDaddy will recommend me other similar names, which we might be interested in.

The screenshot shows the GoDaddy website interface. At the top, there is a navigation bar with links for All Products, Domains, Websites, Hosting, Web Security, Online Marketing, Email & Office, Promos, GoDaddy Blog, and a Pro badge. Below the navigation bar is a search bar containing the text "tutorialspoint.com". To the right of the search bar are two buttons: "Search Again" and "Continue to Cart". Below the search bar is a red-bordered box with a warning icon and the text: "Sorry, tutorialspoint.com is taken. Still want it? [Here's what you do](#)". Below this box is a section titled "Selected just for you:". On the left side of this section is a "Extensions" dropdown menu with the following options: "All extensions" (checked), ".com", ".co.uk", and ".guide". On the right side of this section are three domain suggestions, each with a "Select" button and pricing information:

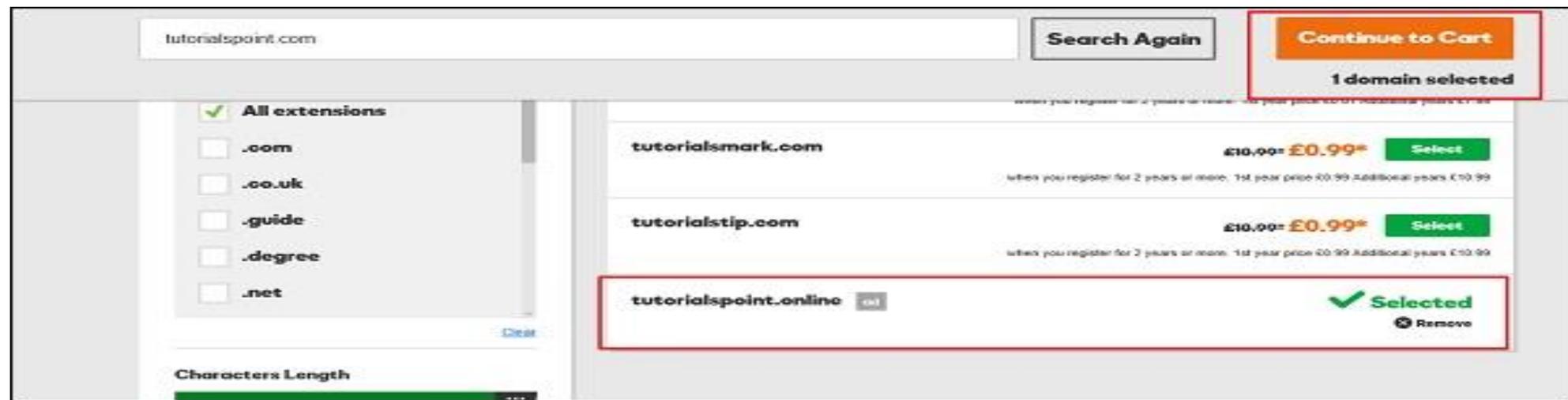
Domain	Price	Additional Info
tutorialspoint.co.uk	£7.00 £0.01	when you register for 2 years or more. 1st year price £0.01. Additional years £7.99
tutorialsmark.com	£10.99* £0.99*	when you register for 2 years or more. 1st year price £0.99. Additional years £10.99
tutorialspoint.guide		

At the bottom of the screenshot is a purple banner with a question mark icon, the text "This Site uses cookies to store information on your computer. Some are essential to make our Site work, others help us improve your experience.", and a "Let's talk!" button with a chat icon.

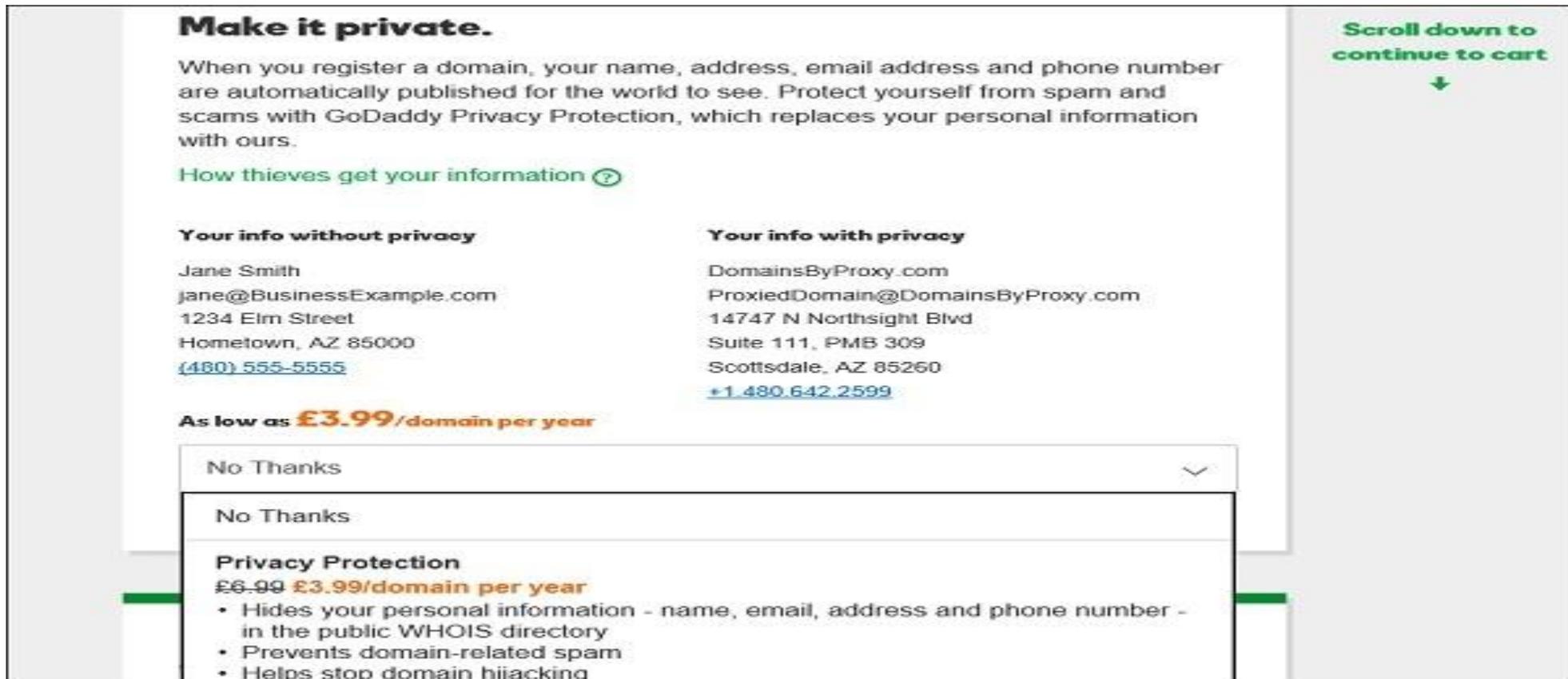
We will select another domain name that GoDaddy suggested us, which is “tutorialspoint.online”.

Click on the green “Select” button.

Then click on “Continue to Card” as shown in the screenshot given below.



On the other page, GoDaddy will ask if I want to hide my personal information from the internet for an extra fee with regards to this domain name, because by default they are open to public.



Make it private.

When you register a domain, your name, address, email address and phone number are automatically published for the world to see. Protect yourself from spam and scams with GoDaddy Privacy Protection, which replaces your personal information with ours.

[How thieves get your information](#)

Your info without privacy	Your info with privacy
Jane Smith jane@BusinessExample.com 1234 Elm Street Hometown, AZ 85000 (480) 555-5555	DomainsByProxy.com ProxiedDomain@DomainsByProxy.com 14747 N Northsight Blvd Suite 111, PMB 309 Scottsdale, AZ 85260 +1 480.642.2599

As low as **£3.99**/domain per year

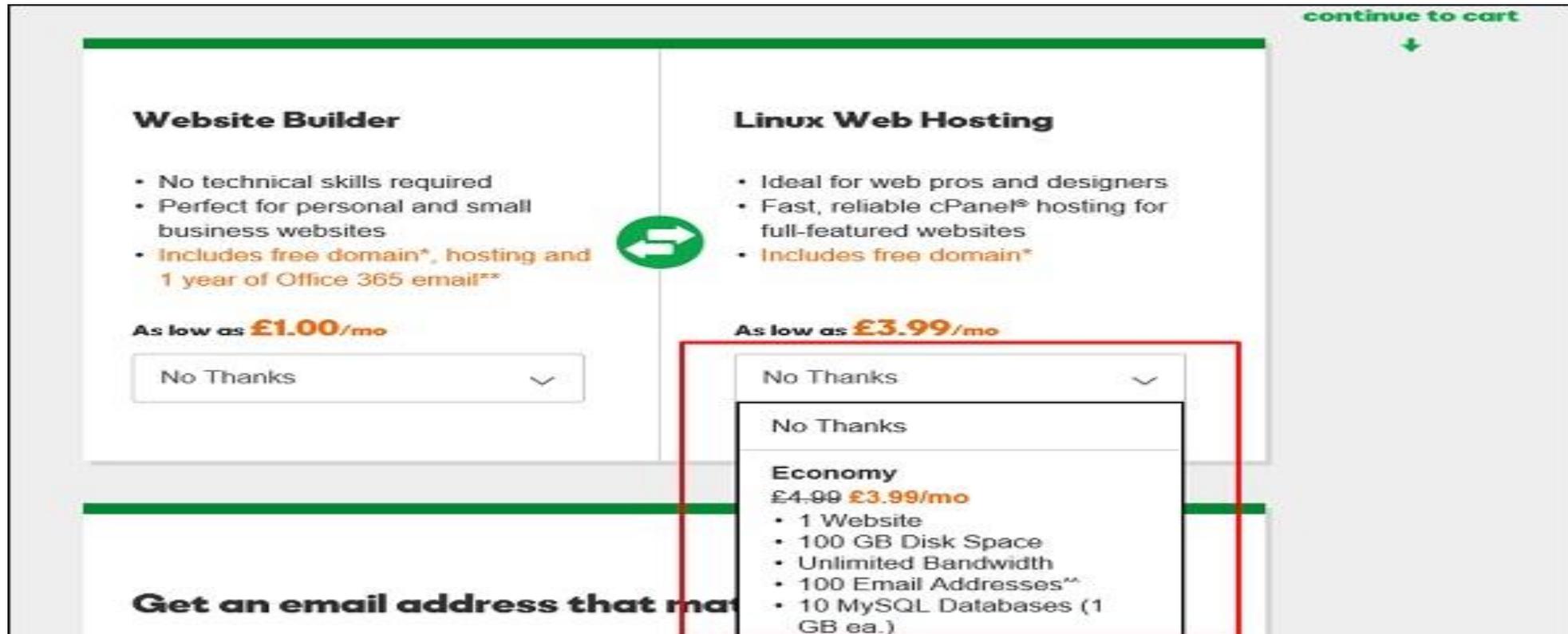
No Thanks

Privacy Protection
~~£6.99~~ **£3.99/domain per year**

- Hides your personal information - name, email, address and phone number - in the public WHOIS directory
- Prevents domain-related spam
- Helps stop domain hijacking

Scroll down to continue to cart

GoDaddy is an accepted Domain name registrar. It is also a Hosting provider which offers you hosting services for your website. It allows you to purchase and at the same time gives a suitable plan for your website.



The screenshot shows a GoDaddy interface with two main sections: "Website Builder" and "Linux Web Hosting".

- Website Builder:**
 - No technical skills required
 - Perfect for personal and small business websites
 - Includes free domain*, hosting and 1 year of Office 365 email**
 - As low as **£1.00/mo**
 - Dropdown menu: No Thanks
- Linux Web Hosting:**
 - Ideal for web pros and designers
 - Fast, reliable cPanel® hosting for full-featured websites
 - Includes free domain*
 - As low as **£3.99/mo**
 - Dropdown menu: No Thanks
 - Selected plan: **Economy** £4.99 **£3.99/mo**
 - 1 Website
 - 100 GB Disk Space
 - Unlimited Bandwidth
 - 100 Email Addresses**
 - 10 MySQL Databases (1 GB ea.)

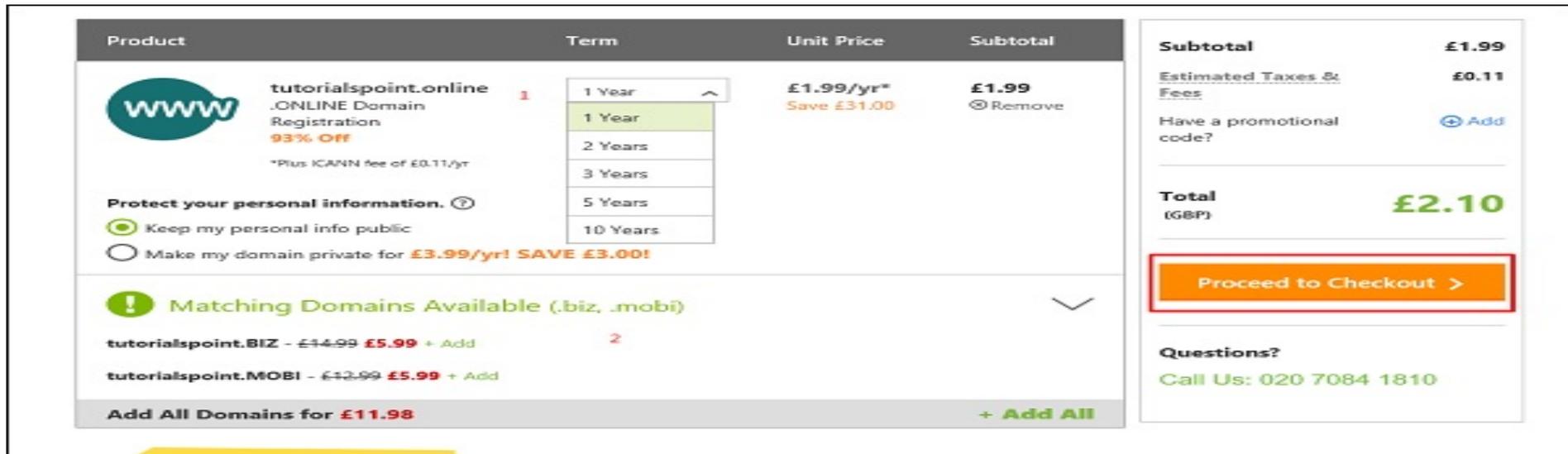
A green double-headed arrow is positioned between the two sections. A "continue to cart" button with a downward arrow is in the top right. A red box highlights the Economy plan details in the Linux Web Hosting dropdown.

Click “Continue to Cart”.

In the webpage that opens next, you must choose the number of years for your domain that it will be required with the possibility to extend this period.

Also, you have the possibility to buy other similar domains.

Click “Proceed to Checkout”.



The screenshot shows a domain registration cart. The main table lists the selected domain and its options:

Product	Term	Unit Price	Subtotal
 tutorialspoint.online .ONLINE Domain Registration 93% OFF <small>*Plus ICANN fee of £0.11/yr</small>	1 Year (dropdown menu open with options: 1 Year, 2 Years, 3 Years, 5 Years, 10 Years)	£1.99/yr* Save £31.00	£1.99 Remove

Below the main item, there are matching domain suggestions:

- tutorialspoint.BIZ - £14.99 **£5.99** + Add
- tutorialspoint.MOBI - £12.99 **£5.99** + Add

At the bottom of the cart, it says: **Add All Domains for £11.98** + Add All

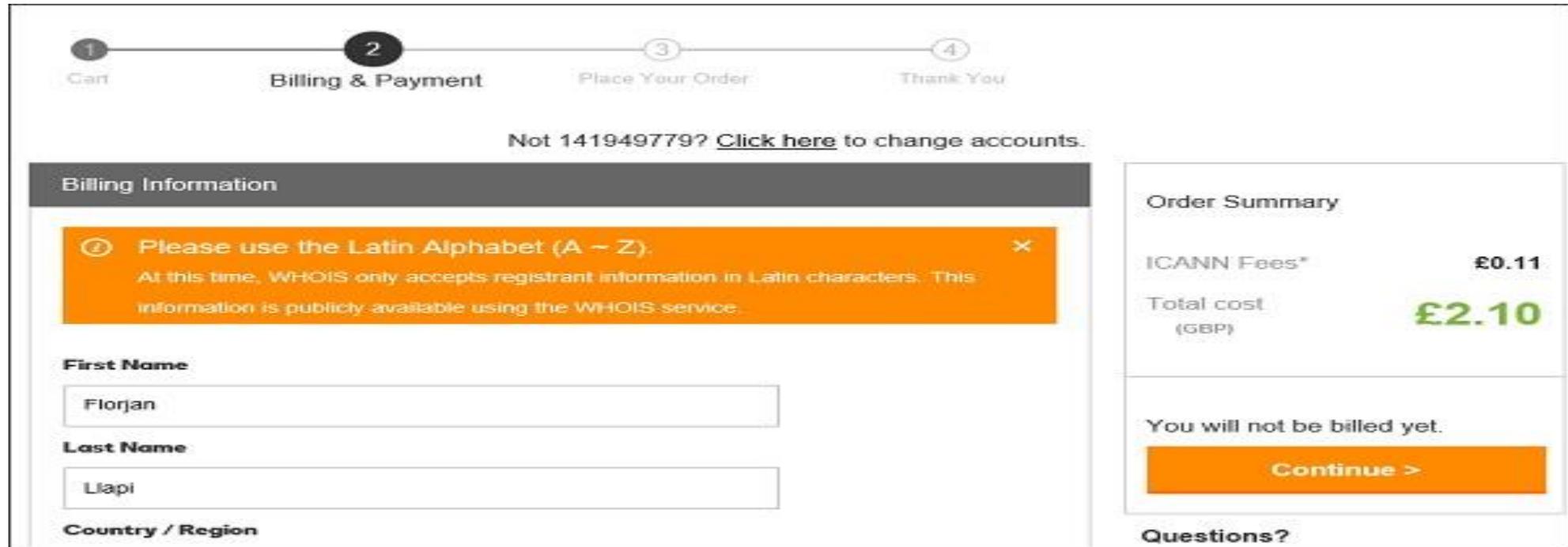
On the right side, a summary box shows:

- Subtotal**: £1.99
- Estimated Taxes & Fees**: £0.11
- Total (GBP)**: **£2.10**

A red box highlights the **Proceed to Checkout >** button.

As we are a new customer, we will click on “Continue”.

In the Billing Section, we should fill genuine data because it should match with the payment information.



The screenshot shows a four-step checkout process: 1. Cart, 2. Billing & Payment (current step), 3. Place Your Order, and 4. Thank You. A link is provided to change accounts if the user is not 141949779. The Billing Information section includes a warning about Latin characters, input fields for First Name (Florjan) and Last Name (Llapi), and a Country/Region field. The Order Summary shows ICANN Fees of £0.11 and a Total cost of £2.10. A 'Continue >' button is visible at the bottom right.

1 Cart 2 Billing & Payment 3 Place Your Order 4 Thank You

Not 141949779? [Click here](#) to change accounts.

Billing Information

Please use the Latin Alphabet (A – Z).
At this time, WHOIS only accepts registrant information in Latin characters. This information is publicly available using the WHOIS service.

First Name
Florjan

Last Name
Llapi

Country / Region

Order Summary

ICANN Fees* £0.11

Total cost (GBP) **£2.10**

You will not be billed yet.

Continue >

Questions?



The following screen will show up once the purchase of the domain is successful.

A screenshot of the GoDaddy website's 'Thank you' page. The page features the GoDaddy logo at the top left, a search bar for domains, and navigation links. The main content area displays 'Thank you' and 'Your order has been submitted.' Below this, there are sections for 'Order Details' and 'Account Information'. The 'Order Details' section lists the order number, total amount (AS17.97), date, and payment method. The 'Account Information' section shows a redacted email address and a redacted phone number. A 'Need help?' section provides contact information and a 'Print This Page' button.



Any Query?????

Thank you.....