**![Obraz zawierający tekst, clipart

Opis wygenerowany automatycznie](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SWuRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA5OjEzIDEwOjA0OjQxAAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAM3NAAAkpIAAgAAAAM3NAAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UKBwcGCAwKDAwLCgsLDQ4SEA0OEQ4LCxAWEBETFBUVFQwPFxgWFBgSFBUU/9sAQwEDBAQFBAUJBQUJFA0LDRQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQUFBQU/8AAEQgAxQIGAwEiAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A/VOikqhqGrQ6bJEs3AfPzemMf41hWr08PDnquyGk5OyNCioreeO4jDxsGU9xUtaxlGa5ou6EFFFFUAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUlIaAHUVz/iLxhpugLtuZd8/8MKZ3Ht+HWvLvAv7V3hDxX4m1Hw9fsdA1a2vJLWNbsjZOQ5Hyt68frUzlGmk5u19jow2Hq4zn+rxcuRXlbWy7s9xoqOKRZFDKdykZBHQ1JVHOFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI1cx4x/1lt/wL+ldO1cv4w/1lt/wL+lfLcS/8i2p8jpw/wDERiWd5PZyb4H2nuvrXR6b4shmxHcjypensa5Rqb7HpX5Bgc8xmWyvSlePZ7HqToxqbo9LjZZFDKcg96fXnlhrFxppAikVlP8AC3Tiup0zxNbXwCufJl9D0P0r9VyvinBZhanN8k+z6+jPNqYadPVao2qKapB5FOr7LfU5AooopgFFFFABRRRQAUUUUAFFU9U1O10m1a5vJ0t4F5LOcCvKPFXxu3B4NDix1H2ufgfhXTRw1XEO0Eefisfh8Gr1Za9up6drniTT/D9v599OsK4O0fxNjqB+leU+JPi7e6oWh00NYwHgSkfOa88vNSuNSuGnu55Li4blnk/pSRvXv0suhSV56s+KxWeVcQ+Wl7sfxNBpmmZndi7v1ZupNfFvjRQPiV4oJzj+1Lno2D/rWr7LjbNfG3jb/ko/if8A7CU3/oVfH8Vq1Gnbufu/gtJyxuLv/KvzPYPg/wDtHeK/h4ILVrk6tpC4X7HdHlF5+4e3/wBavsr4bfHDw18SoYksroWuoEfNYz/LID3x6j6V+cGmfdFdRpsz28ySxSNDIpysinaVPrmvlsHjqtJJS1ifsWf8J4DMZSq017Op3Wz9Ufp2D1pa+Qfhn+0xrXh0Q2evq2s6cuFFxj9+g/8AZv8A61fTXhHx5ovjizFzpN6lwuAWj6PHnOAw7dD+Rr6mjXhWXus/CszyPG5VL9/C8e62/wCAdJRTV9M5p1dB4AUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAI1cv4x+/bf8C/pXUNXLeMv9Za/wDAv6V8nxP/AMiyp8jpw/8AERzXc0NS0yv59qSPeW4tNkJA6kD2pajrzKkupqjV03xJc6ftBYzRf3D1rrdN1221JRsfbJ3RuorzyjcyfMCQw6ba+pynjHHZXaFR+0h2e/yZzVMHCpqtGeqrS1wml+MJ7QhbgebHjGcciuusdUg1FN0L5OASvcZr9tyjiXL85ilQnaf8r0f/AATxauHqUfiWhdopKWvqzmCimsQq5PArgPGXxi0bwvvt4X/tHUACPs8P8J/2j2/+sa2pUaleXJTjdnLiMVRwsOetJJHeXEyW8bSyOsaKMlmOABXl/i/45afpfmW2jr/aF0MjzMfu1P1715H4q+Ies+MJGF7cCG1P3bWF8Iv1PeueVsY4x9OlfVYXJVH38Q7vsfn+P4nlUvDBqy7vc3Nb8Tal4luvtGo3DTuM7V/gTPUL+Q/SqatuqqrbqnjbFe57ONNcsVZHx7qzrS56juy1G22rEb1UVt2KmVtuK5pxOiEi6j18eeOFx8SPEp9dQm/9CNfX0Mn8x/OvkPx0uPiN4iPrev8AyFfnHFytRpep/T/gm/8AbsX/AIF+ZZ0v7orprP7ormtJVpNqIjOx6BetdrY6WYlQ3DY/6Zjr+NfBYeLklY/p3FSUXZlmxjaVgF6+tbej6rN4bvoruyuZIrxWA3I+3AJAOfWs7zQo2qqqvYCmbsZNetT91o+cxUVUpSUlpZ/kfovasZLeJ2+8ygn8qmqG0/490+lTV9V0P5aluwooopkhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFACN0rlfGX+stv+Bf0rqjUNxax3UZSVA6n1rxs3wMsxwk8PCVmzWlP2c1Jnm7UldFq3hJly9mdw6+Wa564hkhcpIuxx1Wv53zTK8Zls+XEQsu/T7z6CnVhU+FkcnamUdzRXylSR0IRqY1Oaoq82pI1iJ3NPimkt2DwyeXIOhplCxvIcBcjvXHGpVU06Dal0tuW0re8dTpPjZo8R36k8f6xRU3ij4maJ4Vtd890k07LuS3iYF2/DtXO29msbKWbJz/Q15T8VptvihF6j7NH8vrya/qDw5xmZZniPqeZy5opXX83zZ8BxLilluFdfDrW9vIk8ZfGHWfFW+GF206xbI8pPvMD/AHq4QDDYyWPUse9TCEOCyfe/uVGylT83Dd19K/qCjQpYePLSjZH4HicViMXL2leV2SLThUUfenr1rZnPEsL2qZW21XWpfSsJI64yLUbbqnVsVVjbb05PoTgV0fhfwbqniuRfsduXhzhriQYRfp61w1ZRprmk7I9GhTnWmoU1dmbHJhgeT7DvyK+ZvE3g6+1H4ia/PMv2S1a8b5z95uB0r9EPCXwr0zw+Enuf9PvlwfMb7qnP8NfHnxYmP/CyvEgwFH218AfQV+a8RV6eLhBLZM/p7wowuIy3FV5Tesor5anK6dptvpcOy3RlB6lupx3q1vqn51HnV8fG0VZH9FyvJtsub6C+Oap+dR5m7P0qov3kc9aP7uXo/wBT9J7X/j3j/wB0VNUNr/x7x/7o/lU1fYLY/lKW7CikaqGs6zY+H9Plv9QuorO0hGXmmbCqKG0tWKMXJqMVds0KK+bZf2xtG174naH4U8K2TapDeXYgm1Rjtix1/d+vQ5/Cvo5T1OePSsqdaFa/I72PQxmX4rL+VYqDg5K6T3sSUUgpa2POCivJ/wBpzVvidonwqurr4R6dFqnjJbiIRW8yxspiJO84cgZ6V8cX3xT/AG79Ptp7mfwjYQ20KtLJI1tattRRknhjQB+j9FflD8Kv2xv2tvjdNqsXgmwsdck0oxrerFZWqeQXLhAdx5z5b9P7te/fAzxv+2JqXxW8PWnxB8L2dn4Okmb+0rny7VWSMKehQ5zmgD7gopM9qWgAooooAKRsd8Y96WvNP2nM/wDDNvxXx/0Keq/+kctAHpMcgkXcpyPanV8H/wDBIVy3wR8Z57eI2/8ASaGvvCgAooooAKKKKACiuF+OU/i21+EPiyXwIhk8YLYSHTFVFZjN2wG4JxnGe9eNfsH3/wAb7/wV4ib41RahHdLep/ZZ1aGKK5Me0+ZuCfw524z70AfTrSKrKCwBPQHvS1+YX7fzbv8AgoB8HF9LbR//AE5XFfp9QAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAIapX+l2+pIFmTOOh9KvUVhWoUsRB06sVJPoxpuLujhtU8K3FoxeA+ZF1x6VgsNrEFdrDrXqzVl6poFrqSksux/wC8tfkud8BwrJ1ctlyv+V7fJ9D1aOOcXaoecydqaFLcCtHVNIbT5mUSLKv+z1H1qirjoBjHWvwjFYOphKzo4lcrR7cZRmrxHx2vOWq1tCgYqBXpytur18G6NBe4jGpzSJl7fX+hryP4qLu8Tp/17R/zNesr1H1/oa8p+Ji7vEif9eyfzNfuXhrVTzh/4WfnvGMf+E7/ALeRyMcefwqyYUmUB147N6Ukce6rkcPSv6gnUd9D8XhTvozLn057cbwPMTs3pUCtuHWuohj29KZdaDDcqzqfKfBLE9D9aiOKjflkOeDlbmgc6ta+h6BqHiG6Fvp9rJcycbto4XPcnsK7v4b/AAjtPFECX1/qcM9uDzb2j5J68Me1e66PotnodmtrY26W0CjASMV5GMzeFFuFJXf4H0+V8O1cUlVrvlh+LPN/B/wPs7MRz6263k64IgjGIwff+9XqVvbxWcSwwoscajAVRgCpRS18hWxFTEO9R3P0nC4Khg48tGNhjfdr89/jA+34neJf+v1/5Cv0JbpX50fGa42/FTxP/wBfrfyFfP5m+WnH1P1vgKN8dV/w/qc751HnVm/aaPtNfM85+8eyNLzqUTdazPtNH2nOF5GSOR9aqE/eRjWp/u5LyP1Gtf8Aj1hP+wP5U+SVIY2d2CIoyW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**DOKUMENTACJA TECHNICZNA   
PROJEKTU**

**Praktyki zawodowe**

**Praktykant:**

**Vladyslav Gruzin**

**3-A**

**Rok szkolny 2022/2023**

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Sklep internetowy

Rozdział 1: Wstęp

Projekt zakłada stworzenie kompleksowej platformy internetowej, która umożliwi łatwe tworzenie i zarządzanie stroną sklepu internetowego. W ramach tego projektu, będziemy tworzyć zaawansowane funkcje, które pozwolą na dynamiczne wyświetlanie listy produktów, umożliwią tworzenie osobnych podstron dla każdego produktu, umożliwią kategoryzację produktów, wprowadzą funkcję filtrowania produktów, umożliwią zarządzanie koszykiem, uproszczony system płatności, oraz stworzą system kont dla klientów oraz panel administracyjny dla właściciela sklepu.

Aby osiągnąć te cele, będziemy korzystać z różnych narzędzi i technologii. Do stworzenia strony internetowej wykorzystamy popularny framework taki jak Django, który zapewni solidną podstawę do budowy aplikacji internetowej. Będziemy również korzystać z języków programowania takich jak Python lub JavaScript do tworzenia logiki biznesowej i obsługi żądań użytkowników.

Do przechowywania danych, w tym listy produktów, kategorii, informacji o klientach itp., skorzystamy z bazy danych. SQLlite będzie odpowiednim do przechowywania i manipulowania tymi informacjami. Będziemy tworzyć modele danych, które będą odzwierciedlały strukturę naszych produktów, kategorii, użytkowników itp., oraz wykorzystamy zapytania do bazy danych, aby pobierać i aktualizować dane zgodnie z potrzebami aplikacji.

Aby umożliwić dynamiczne wyświetlanie listy produktów, stworzymy interfejs, który będzie pobierał dane z bazy danych i renderował je na stronie internetowej. Dzięki temu użytkownicy będą mogli przeglądać produkty, sortować je, oraz stosować filtry, aby łatwo znaleźć interesujące ich przedmioty.

Moduł zarządzania koszykiem będzie umożliwiał użytkownikom dodawanie produktów do koszyka, usuwanie ich, oraz aktualizowanie ilości. Będziemy również implementować prosty system płatności, który pozwoli klientom dokonywać transakcji online. Możemy użyć gotowych rozwiązań płatności, takich jak PayPal, które oferują łatwą integrację z naszą aplikacją.

W celu obsługi kont użytkowników, stworzymy system autoryzacji i uwierzytelniania. Klienci będą mieli możliwość tworzenia kont, logowania i wylogowania się, oraz zarządzania swoim profilem. Będziemy dbać o bezpieczeństwo haseł i poufność danych osobowych użytkowników.

Dla administratora sklepu stworzymy panel administracyjny, który umożliwi zarządzanie produktami, kategoriami, zamówieniami i innymi aspekt

Założenia projektu

Czas na wykonanie projektu to 80 godzin.

Cele projektu

Celem tego projektu jest stworzenie kompleksowej platformy internetowej, która umożliwi łatwe tworzenie i zarządzanie stroną sklepu internetowego. Projekt ma na celu zapewnienie zaawansowanych funkcji, takich jak wyświetlanie listy produktów, osobne podstrony z informacjami o produktach, tworzenie kategorii, filtrowanie produktów, zarządzanie koszykiem, uproszczony system płatności, system kont dla klientów oraz panel administracyjny dla właściciela sklepu.

Analiza SWOT projektu

W tej części należy opracować i zamieścić analizę SWOT dla zaplanowanego projektu.

|  |  |
| --- | --- |
| **Mocne strony projektu** | **Słabe strony projektu** |
| Zaawansowane funkcje sklepu internetowego, takie jak filtrowanie produktów, zarządzanie koszykiem i system płatności, przyciągną klientów i zapewnią im wygodne doświadczenie zakupowe.  Stworzenie osobnych podstron dla produktów umożliwi szczegółowe informacje o każdym produkcie, co może zwiększyć zaangażowanie użytkowników i skłonić ich do zakupu. | Wymaga zaawansowanej wiedzy technicznej do implementacji wszystkich funkcji i integracji różnych narzędzi.  Konieczność skonfigurowania i zarządzania bazą danych może być czasochłonna i wymagać doświadczenia w obszarze administracji baz danych. |
| **Szanse** | **Zagrożenia** |
| Rosnący rynek e-commerce oferuje duży potencjał wzrostu dla projektu.  Wzrost świadomości klientów na temat zakupów online i wygodnego doświadczenia zakupowego może sprzyjać sukcesowi projektu.  Integracja z popularnymi systemami płatności może przyciągnąć większą liczbę klientów. | Konkurencja w dziedzinie sklepów internetowych może utrudnić zdobycie i utrzymanie klientów.  Wymagania regulacyjne związane z ochroną danych osobowych i transakcjami online mogą stanowić wyzwanie.  Ryzyko wystąpienia incydentów bezpieczeństwa, takich jak ataki hakerskie, może wpływać na zaufanie klientów. |

Rozdział 3: Monitorowanie projektu

Etapy realizacji projektu

W tej części należy przedstawić poszczególne sensownie zaplanowane etapy projektu.

Harmonogram prac

W tej części należy określić ramy czasowe projektu, czyli terminy zakończenia poszczególnych etapów projektu i zamieścić je w poniższej tabeli.

|  |  |
| --- | --- |
| **Termin końcowy** | **Określenie, który etap projektu będzie ukończony** |
| 2023/04/18 | Tworzenie wyglądu strony, tworzenie strony głównej z produktami, tworzenie strony z podsumowaniem |
| 2023/04/25 | dodawanie zdjęć produktów, tworzenie funkcji obliczających sumę produktów I sumę cenny produktów. |
| 2023/05/09 | - automatyczne obliczanie ceny I ilości w checkout page , naprawa problemu w pliku views.py , - dodanie js folderu -dodanie przycisku ‘add to cart’ |
| 2023/05/16 | -dodanie CSRF TOKEN, -wyświetlanie ilości produktów dodanych do koszyka  -tworzenie funkcji dla przycisku ‘add to cart’ |
| 2023/05/23 | - zwiększaj/zmniejszaj liczbę produktów strzałką w checkout page, -renderowanie sumy w koszyku |
| 2023/05/30 | -przycisk dokonania płatności -logika formularza wysyłki -zaktualizowanie ilośći koszyka |

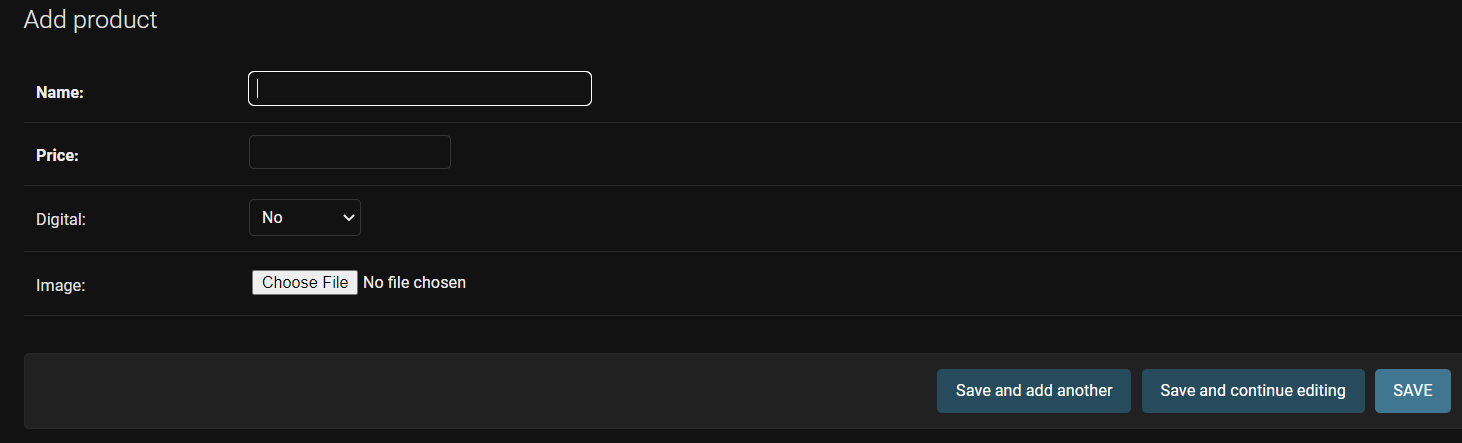
Kontrola realizacji projektu

W tej części należy potwierdzać zakończenie realizacji kolejnych etapów projektu.

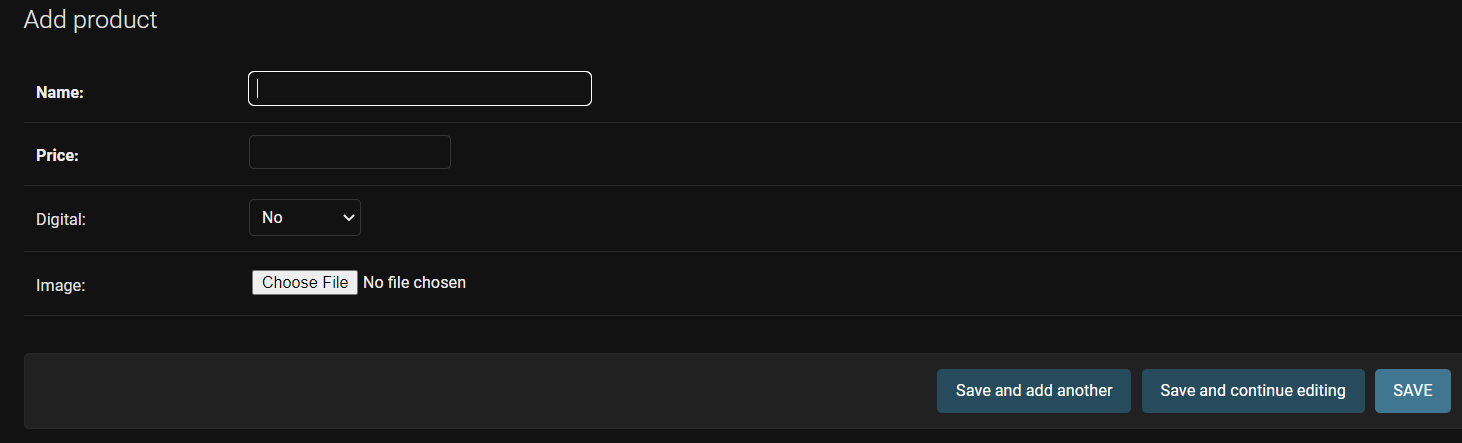
|  |  |
| --- | --- |
| **Nazwa etapu projektu (wg ustalonego planu)** | **Potwierdzenie zrealizowania etapu** |
| * podstawowe ustawienia projektu | ▭ |
| * wygląd strony głównej | ▭ |
| * funkcje dla strony głównej | ▭ |
| * dodawanie produktów na stronę główną | ▭ |

Rozdział 4: Prezentacja prac z poszczególnych etapów projektu

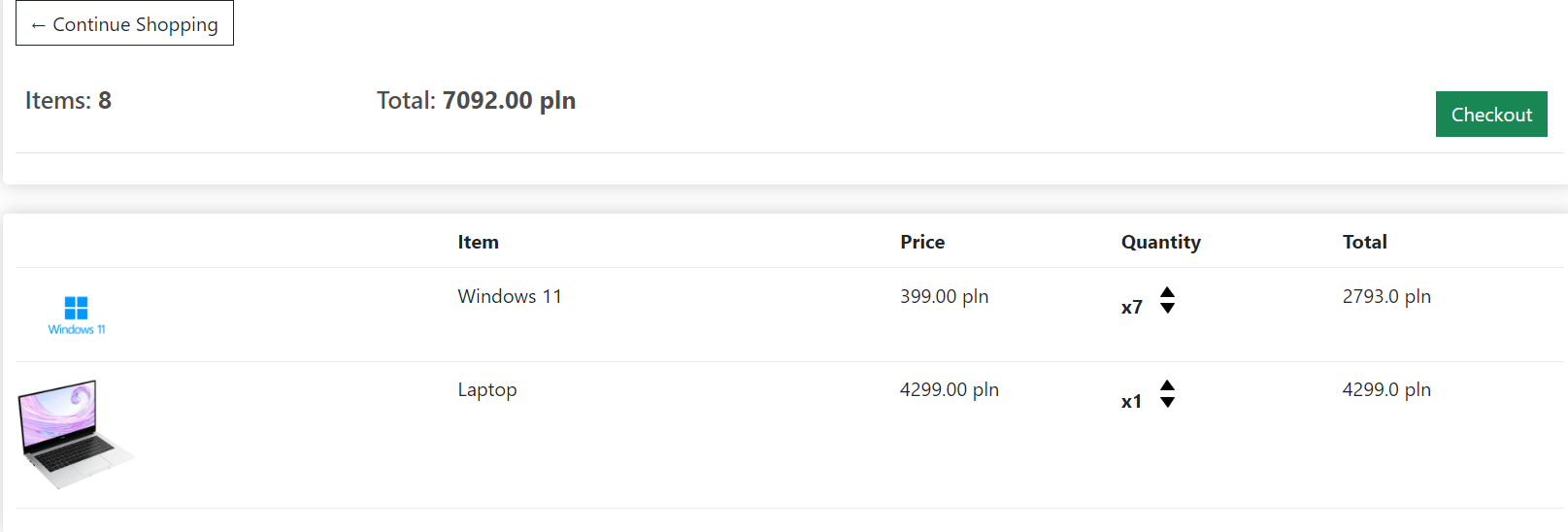
Efekty prac z etapu nr 1



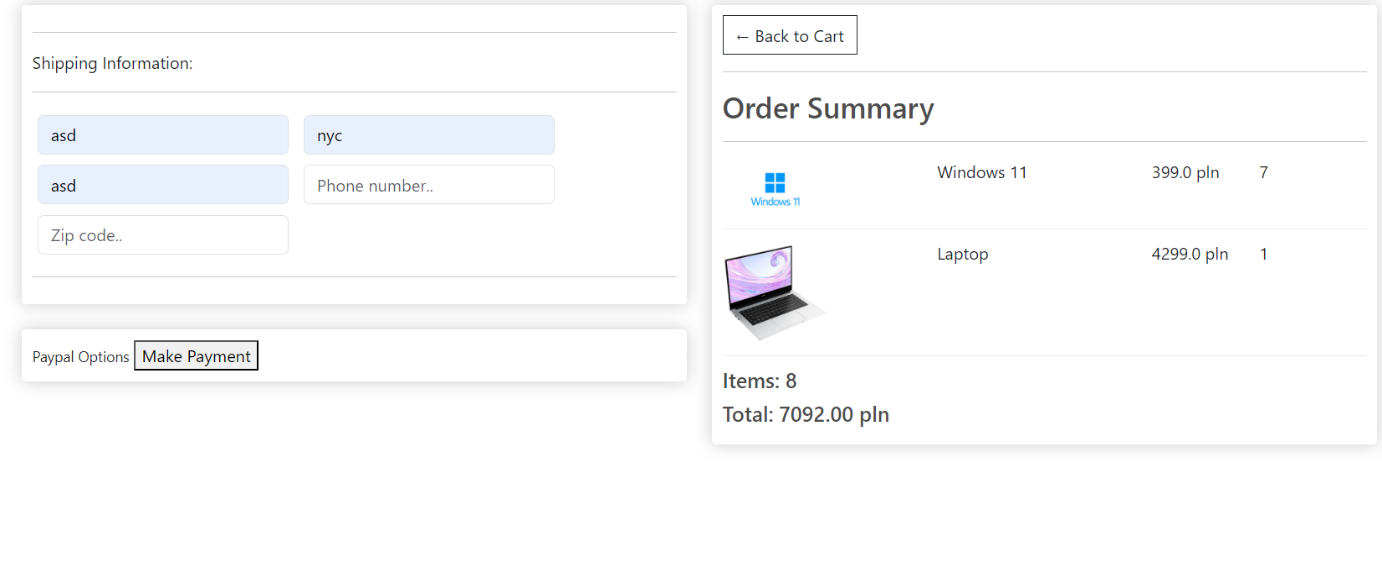
Efekty prac z etapu nr 2



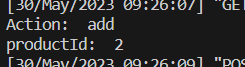
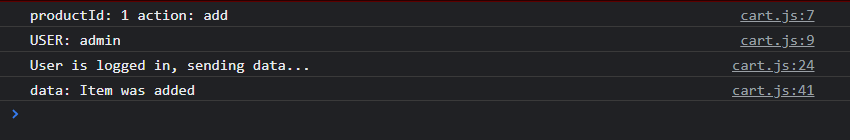
Efekty prac z etapu nr 3



Efekty prac z etapu nr 4



Efekty prac z etapu nr 5



Rozdział 5: Zastosowane rozwiązania

Opis zastosowanych metod i rozwiązań

W projekcie do tworzenia wyglądu strony został wykorzystany html i css np. do stworzenia przycisku ‘add to cart’ i jego wyglądu, do tworzenia funkcji na stronie frontendowej JavaScript np do takich funkcji jak rozpoznanie użytkownika który jest zalogowany w tej chwili, do zarządzania częścią backendową(serwerową) jest zastosowany django/python np. do komunikacji między bazą danych a frontendem.

Rozdział 6: Podsumowanie projektu

Ocena własna opracowanego projektu

Projekt stworzenia kompleksowej platformy internetowej dla sklepów internetowych wykazuje dużo potencjału. Wykorzystanie frameworka Django i bazy danych SQLite to solidne wybory technologiczne, które zapewniają stabilność i skalowalność. Zaawansowane funkcje, takie jak dynamiczne wyświetlanie produktów, filtrowanie, kategoryzacja, zarządzanie koszykiem i prosty system płatności, wzbogacają doświadczenie użytkowników. Dodatkowo, wprowadzenie systemu kont dla klientów i panelu administracyjnego dla właściciela sklepu ułatwia zarządzanie i personalizację. Projekt ten może przyczynić się do tworzenia profesjonalnych sklepów internetowych, które spełniają potrzeby zarówno sprzedawców, jak i klientów. Jednak sukces zależy również od starannej implementacji i odpowiedniego dopasowania do konkretnych wymagań biznesowych.

Wnioski

Platformy sklepów internetowych są dynamiczne, a oczekiwania klientów i trendy technologiczne się zmieniają. Projekt powinien uwzględniać potrzebę ciągłego doskonalenia, aktualizacji i rozwoju, aby utrzymać konkurencyjność na rynku e-commerce.

**Data zakończenia**: 6/6/2023

**Wykonawca projektu (praktykant)**:

Załącznik 1: Instrukcja użytkowania

Wstęp

By odpalić stronę trzeba w terminalu wejść do lokalizacji \WebShop\webshop

Następnie wpisać ‘python manage.py runserver’ i kliknąć ctrl i myszką w link (http://127.0.0.1:8000/)

Wymagania techniczne

Zainstalowana przeglądarka przeglądarki