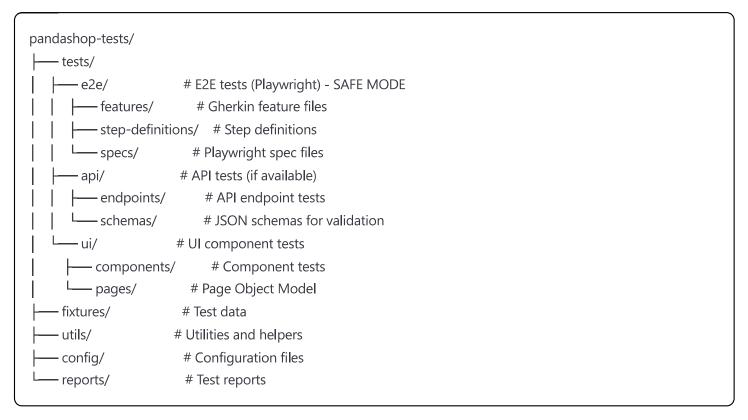
Pandashop.md - Technical Specification for Test Auto-generation (Safe Mode)

For GitHub Copilot Agent: Create tests using Playwright/TypeScript + Gherkin for urgent scenario (3-4 weeks, 300-400 test cases)

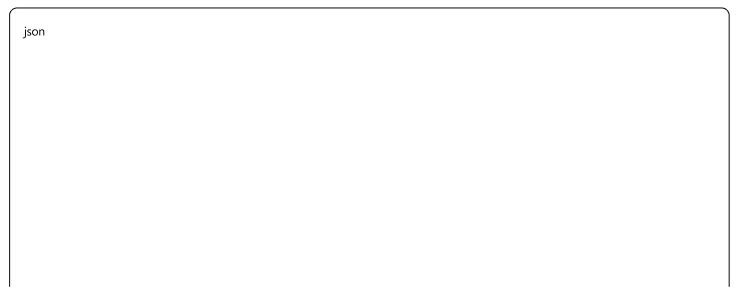
SAFETY MODE: No SMS testing, E2E tests stop before final order placement

Project Structure



Dependencies and Configuration

package.json dependencies



```
{
  "devDependencies": {
    "@playwright/test": "^1.40.0",
    "@cucumber/cucumber": "^10.0.0",
    "@cucumber/playwright": "^1.0.0",
    "typescript": "^5.0.0",
    "axios": "^1.6.0",
    "joi": "^17.11.0",
    "faker": "^6.6.6",
    "dotenv": "^16.3.1",
    "allure-playwright": "^2.9.0"
  }
}
```

playwright.config.ts

```
typescript
export default defineConfig({
 testDir: './tests',
 timeout: 30000,
 expect: { timeout: 5000 },
  baseURL: 'https://pandashop.md',
  headless: true,
  screenshot: 'only-on-failure',
  video: 'retain-on-failure',
  locale: 'ru-RU'
 },
 projects: [
  { name: 'chromium', use: { ...devices['Desktop Chrome'] } },
  { name: 'firefox', use: { ...devices['Desktop Firefox'] } },
  { name: 'webkit', use: { ...devices['Desktop Safari'] } },
  { name: 'mobile', use: { ...devices['iPhone 13'] } }
 ]
});
```

Website Structure and Selectors (Pandashop.md)

Main Interface Elements

```
// Selectors for auto-generating Page Objects
export const SELECTORS = {
// Header Navigation
LOGO: 'a[href="/"]',
 LANGUAGE_SWITCHER_RU: 'a:has-text("Py")',
 LANGUAGE SWITCHER RO: 'a:has-text("Ro")',
 SEARCH INPUT: 'input[placeholder*="Πονιςκ"], input[placeholder*="Căutare"]',
 SEARCH_BUTTON: 'button[type="submit"]',
 CART_ICON: '[data-testid="cart-icon"], .cart-counter, .header-cart',
 CART_COUNTER: '.cart-counter, .cart-badge',
 USER_MENU: '.user-menu, .header-user',
 LOGIN_LINK: 'a:has-text("Вход"), a:has-text("Intrare")',
 REGISTER LINK: 'a:has-text("Регистрация"), a:has-text("Înregistrare")',
 PHONE NUMBERS: 'a[href^="tel:022"], a[href^="tel:079"], a[href^="tel:060"]',
// Navigation Menu
 CATALOG_MENU: 'text="Kaтaлог товаров", text="Catalogul produselor",
 CATEGORIES: {
  ELECTRONICS: 'text="Электроника", text="Electronică"',
  APPLIANCES: 'text="Бытовая техника", text="Electrocasnice",
  HOME_GARDEN: 'text="Дом и сад", text="Casă și grădină"',
  CONSTRUCTION: 'text="Строительство и ремонт", text="Construcţii și reparaţii",
  PETS: 'text="Товары для животных", text="Produse pentru animale",
  SPORTS: 'text="Cnopt", text="Sport"',
  TOURISM: 'text="Активный отдых и туризм", text="Recreere activă și turism",
  HOBBY: 'text="Хобби и творчество", text="Hobby și creativitate",
  KIDS: 'text="Детские товары", text="Produse pentru copii",
  AUTO: 'text="Автотовары", text="Produse auto",
  BEAUTY: 'text="Красота и здоровье", text="Frumuseţe și sănătate",
  FASHION: 'text="Fashion"',
  BUSINESS: 'text="Товары для бизнеса", text="Produse pentru afaceri"
},
// Product Catalog
 PRODUCT_CARDS: '.product-card, .product-item',
 PRODUCT_TITLE: '.product-title, .product-name',
 PRODUCT_PRICE: '.product-price, .price',
 PRODUCT_OLD_PRICE: '.product-old-price, .old-price',
 PRODUCT_DISCOUNT: '.discount, .sale-badge',
 CASHBACK_AMOUNT: '.cashback-amount, .cashback',
 PRODUCT_IMAGE: '.product-image img, .product-photo img',
 PRODUCT_RATING: '.product-rating, .rating',
 PRODUCT REVIEWS COUNT: '.reviews-count, .product-reviews',
```

```
ADD_TO_CART_BTN: 'button:has-text("В корзину"), button:has-text("În coș")',
ADD TO FAVORITES: '.add-to-favorites, .wishlist-btn',
ADD TO COMPARE: '.add-to-compare, .compare-btn',
// Product Details Page
PRODUCT DETAILS: '.product-details, .product-info',
PRODUCT GALLERY: '.product-gallery, .product-images',
PRODUCT_CHARACTERISTICS: '.product-characteristics, .specifications',
QUANTITY_INPUT: 'input[type="number"], .quantity-input',
QUANTITY_PLUS: '.quantity-plus, .qty-plus',
QUANTITY_MINUS: '.quantity-minus, .qty-minus',
IN_STOCK_STATUS: '.in-stock, .availability',
OUT OF STOCK STATUS: '.out-of-stock, .unavailable',
// Search and Filters
SEARCH RESULTS: '.search-results, .products-list',
SEARCH_RESULTS_COUNT: '.results-count, .found-products',
PRICE_FILTER: '.price-filter, .filter-price',
PRICE MIN: 'input[name="price min"], #price-min',
PRICE_MAX: 'input[name="price_max"], #price-max',
BRAND_FILTER: '.brand-filter, .filter-brand',
CATEGORY_FILTER: '.category-filter, .filter-category',
APPLY FILTERS: 'button:has-text("Применить"), button:has-text("Aplică")',
RESET_FILTERS: 'button:has-text("Сбросить"), button:has-text("Resetare")',
SORT_SELECT: '.sort-select, .sorting',
// Shopping Cart
CART_PAGE: '.cart-page, .shopping-cart',
CART_ITEMS: '.cart-items, .cart-products',
CART_ITEM: '.cart-item, .cart-product',
CART_ITEM_IMAGE: '.cart-item-image img',
CART_ITEM_NAME: '.cart-item-name, .product-name',
CART_ITEM_PRICE: '.cart-item-price, .item-price',
CART_ITEM_QUANTITY: '.cart-item-quantity input, .quantity-input',
CART_ITEM_TOTAL: '.cart-item-total, .item-total',
REMOVE_ITEM: '.remove-item, .delete-item',
CART_SUBTOTAL: '.cart-subtotal, .subtotal',
CART DISCOUNT: '.cart-discount, .discount-amount',
CART_CASHBACK: '.cart-cashback, .cashback-amount',
CART_TOTAL: '.cart-total, .total-amount',
CONTINUE SHOPPING: 'button:has-text("Продолжить покупки"), button:has-text("Continuă cumpărăturile")',
PROCEED TO CHECKOUT: 'button:has-text("Оформить заказ"), button:has-text("Plasaţi comanda")',
CLEAR_CART: 'button:has-text("Очистить корзину"), button:has-text("Goleste cosul")',
```

```
// User Authentication (EMAIL ONLY - NO SMS)
LOGIN_FORM: '.login-form, .auth-form',
LOGIN EMAIL: 'input[type="email"], input[name="email"]',
LOGIN PASSWORD: 'input[type="password"], input[name="password"]',
LOGIN_SUBMIT: 'button[type="submit"]:has-text("Войти"), button[type="submit"]:has-text("Intrare")',
REMEMBER ME: 'input[type="checkbox"]',
FORGOT_PASSWORD: 'a:has-text("Забыли пароль"), a:has-text("Aţi uitat parola")',
// Registration Form (EMAIL ONLY)
REGISTER_FORM: '.register-form, .registration-form',
REGISTER_EMAIL: 'input[name="email"], input[type="email"]',
REGISTER_PASSWORD: 'input[name="password"], input[type="password"]',
REGISTER_CONFIRM_PASSWORD: 'input[name="password_confirmation"], input[name="confirm_password"]',
REGISTER FIRST NAME: 'input[name="first name"], input[name="firstname"]',
REGISTER LAST NAME: 'input[name="last name"], input[name="lastname"]',
REGISTER_PHONE: 'input[name="phone"], input[type="tel"]',
REGISTER_AGREE_TERMS: 'input[type="checkbox"]',
REGISTER_SUBMIT: 'button[type="submit"]:has-text("Зарегистрироваться"), button[type="submit"]:has-text("Înregist
// Checkout Process (SAFE MODE - NO FINAL SUBMISSION)
CHECKOUT_STEPS: '.checkout-steps, .order-steps',
DELIVERY FORM: '.delivery-form, .address-form',
DELIVERY FIRST NAME: 'input[name="delivery first name"]',
DELIVERY_LAST_NAME: 'input[name="delivery_last_name"]',
DELIVERY_PHONE: 'input[name="delivery_phone"]',
DELIVERY_EMAIL: 'input[name="delivery_email"]',
DELIVERY_CITY: 'input[name="city"], select[name="city"]',
DELIVERY_STREET: 'input[name="street"], input[name="address"]',
DELIVERY_BUILDING: 'input[name="building"], input[name="house"]',
DELIVERY_APARTMENT: 'input[name="apartment"], input[name="apt"]',
DELIVERY_POSTAL_CODE: 'input[name="postal_code"], input[name="zip"]',
DELIVERY_METHOD: '.delivery-method, .shipping-method',
DELIVERY_COURIER: 'input[value="courier"], label:has-text("Курьерская доставка")',
DELIVERY_PICKUP: 'input[value="pickup"], label:has-text("Самовывоз")',
DELIVERY_NOTES: 'textarea[name="notes"], textarea[name="comment"]',
// Payment Method Selection (SAFE MODE)
PAYMENT METHODS: '.payment-methods, .payment-options',
PAYMENT CASH: 'input[value="cash"], label:has-text("Наличными")',
PAYMENT_CARD: 'input[value="card"], label:has-text("Картой")',
PAYMENT TRANSFER: 'input[value="transfer"], label:has-text("Переводом")',
// Order Review (STOPPING POINT)
ORDER REVIEW: '.order-review, .order-summary',
```

```
ORDER_ITEMS_REVIEW: '.order-items, .order-products',
 ORDER_DELIVERY_INFO: '.delivery-info, .shipping-info',
 ORDER PAYMENT INFO: '.payment-info',
 ORDER_TOTALS_REVIEW: '.order-totals, .order-summary-totals',
// A DO NOT INCLUDE FINAL SUBMIT BUTTONS
// PLACE_ORDER_BTN: 'button:has-text("Подтвердить заказ")', // EXCLUDED FOR SAFETY
// Promotional Elements
 PROMO_BANNERS: '.promo-banner, .promotion',
 PROMO_CODE_INPUT: 'input[name="promo_code"], input[name="coupon"]',
 APPLY_PROMO_CODE: 'button:has-text("Применить"), button:has-text("Aplică")',
// Popular Categories (Footer)
 POPULAR_CATEGORIES: '.popular-categories',
// Newsletter Subscription
 NEWSLETTER_FORM: '.newsletter, .subscription',
 NEWSLETTER_EMAIL: 'input[name="newsletter_email"]',
 NEWSLETTER_SUBMIT: 'button:has-text("Подписаться"), button:has-text("Abonare")',
// Mobile Specific
 MOBILE_MENU_TOGGLE: '.mobile-menu-toggle, .hamburger',
 MOBILE_MENU: '.mobile-menu, .mobile-nav',
 MOBILE_SEARCH_TOGGLE: '.mobile-search-toggle',
// Language Context
RUSSIAN_CONTENT: '[lang="ru"], .lang-ru',
 ROMANIAN_CONTENT: '[lang="ro"], .lang-ro'
};
```

URL Structure and Routing

```
export const ROUTES = {
 HOME: '/',
 CATALOG: '/catalog',
 PRODUCT: '/product/:id',
 SEARCH: '/search',
 CART: '/cart',
 CHECKOUT: '/checkout', // SAFE MODE - will not complete
 LOGIN: '/login',
 REGISTER: '/register',
 PROFILE: '/profile',
 CATEGORY: (category: string) => `/catalog/${category}`
};
export const CATEGORIES = [
 'electronics', 'appliances', 'home-garden', 'construction',
 'pets', 'sports', 'tourism', 'hobby', 'kids', 'auto',
 'beauty', 'fashion', 'business'
];
export const LANGUAGES = ['ru', 'ro'];
```



Gherkin Scenarios (BDD) - SAFE MODE

Critical Path Features (No Real Orders)

Feature: Product Discovery and Cart Management



Feature: Product Discovery and Cart Management

As a customer

I want to browse and add products to my cart

So that I can prepare my order for review

Background:

Given I am on the Pandashop homepage

And the website is fully loaded

@critical @smoke

Scenario: Complete shopping flow to order review (SAFE MODE)

When I search for "iPhone"

And I select the first product from search results

And I verify product details are displayed correctly

And I add the product to cart

And I navigate to cart

And I verify product appears in cart with correct details

And I proceed to checkout

And I fill delivery information with valid data

And I select "Курьерская доставка" delivery method

And I select "Наличными курьеру" payment method

And I review my order details

Then I should see complete order summary with:

Product details | ✓ |

Delivery info

Payment method | \sqrt{|

| Total amount | ✓ |

🔥 STOP HERE - DO NOT PLACE ACTUAL ORDER

@multilingual @critical

Scenario: Language switching preserves cart state

Given I have added 2 products to cart in Russian

When I switch language to Romanian

Then the interface should display in Romanian

And my cart should preserve all 2 products

And product names should be translated appropriately

And cart totals should remain identical

When I switch back to Russian

Then everything should be preserved in Russian

@search @smoke

Scenario: Product search and filtering

When I search for "телефон"

Then I should see search results for phones

And results count should be displayed

When I apply price filter from 5000 to 15000 lei

And I apply brand filter for "Apple"

Then filtered results should match criteria

When I reset all filters

Then I should see all search results again

Feature: Cart Management (Safe Mode)

gherkin

Feature: Cart Management

As a customer

I want to manage items in my shopping cart

So that I can control my selection before checkout

@cart @critical

Scenario: Add and modify cart items

Given I am on the homepage

When I navigate to "Электроника" category

And I add first product to cart

And I continue shopping

And I add second product to cart

And I navigate to cart page

Then I should see 2 products in cart

When I increase quantity of first item to 3

Then cart total should be recalculated correctly

When I remove second item from cart

Then cart should contain only first item with quantity 3

@cart

Scenario: Cart persistence across language switching

Given I have 3 different products in cart

When I switch language from Russian to Romanian

Then cart should maintain all 3 products

And quantities should remain unchanged

And prices should remain the same

And product names should be in Romanian

Feature: User Registration (Email Only)

Feature: User Registration As a new customer I want to create an account using email So that I can save my preferences and track orders @registration @critical Scenario: Register with email only (no SMS) Given I am on the registration page When I fill registration form with valid email data: Email test.user@example.com Password SecurePass123! | Confirm Password | SecurePass123! First Name | Тест | Last Name Пользователь +37360123456 | Phone And I agree to terms and conditions And I submit registration form Then I should receive email confirmation And I should be able to login with these credentials # ___ NO SMS VERIFICATION @login @critical Scenario: Login with valid credentials Given I have a registered account When I navigate to login page And I enter valid email and password And I click login button Then I should be logged in successfully And I should see my name in user menu

Feature: Checkout Process (Safe Mode)

gherkin			

```
Feature: Checkout Process
 As a customer
I want to fill checkout forms completely
 So that I can review my order before placement
 @checkout @critical
 Scenario: Complete checkout form filling (SAFE MODE)
  Given I have products in my cart
  When I proceed to checkout
  And I fill delivery information:
  First Name Иван
   Last Name Петров
             ivan.petrov@example.com
   Email
              +37360123456
   Phone
   | City
             Кишинев
             ул. Штефан чел Маре
   Street
   Building | 124
  | Apartment | 15
  | Postal Code | MD-2012
  And I select "Курьерская доставка" as delivery method
  And I select "Картой онлайн" as payment method
  And I add delivery notes "Звонить за час до доставки"
  Then I should see complete order review with:
  Delivery address | Кишинев, ул. Штефан чел Маре, 124-15 |
  | Delivery method | Курьерская доставка
  | Payment method | Картой онлайн
  Order items | All cart products listed
   Total amount | Calculated correctly
  # 🔥 STOP AT REVIEW - DO NOT SUBMIT ORDER
 @checkout @validation
 Scenario: Checkout form validation
  Given I have products in my cart
  When I proceed to checkout
  And I try to submit form with missing required fields
  Then I should see validation errors for:
  Field Error Message
   | Email | Email обязателен для заполнения |
   Phone Телефон обязателен
  | City | Город обязателен
  Street Адрес обязателен
   | Building | Номер дома обязателен
  When I fill all required fields correctly
```

Then validation errors should disappear	
And I should be able to proceed to review	

Test Data Templates (Safe Mode)

typescript	

```
export const TEST_DATA = {
USERS: {
  VALID USER: {
   email: () => `test.user.${Date.now()}@example.com`,
   password: 'SecurePassword123!',
   confirmPassword: 'SecurePassword123!',
   firstName: 'Tect',
   lastName: 'Пользователь',
   phone: '+37360123456'
  },
  EXISTING_USER: {
   email: 'existing.user@example.com',
   password: 'ExistingPass123!'
  }
},
SEARCH_TERMS: {
  RUSSIAN: ['iPhone', 'телефон', 'холодильник', 'телевизор'],
  ROMANIAN: ['telefon', 'frigider', 'televizor', 'laptop']
},
 DELIVERY_ADDRESS: {
  CHISINAU: {
   firstName: 'Иван',
   lastName: 'Петров',
   email: 'ivan.petrov@example.com',
   phone: '+37360123456',
   city: 'Кишинев',
   street: 'ул. Штефан чел Маре',
   building: '124',
   apartment: '15',
   postalCode: 'MD-2012',
   notes: 'Звонить за час до доставки'
  },
  BALTI: {
   firstName: 'Мария',
   lastName: 'Иванова',
   email: 'maria.ivanova@example.com',
   phone: '+37368234567',
   city: 'Бельцы',
   street: 'ул. Независимости',
```

```
building: '45',
   apartment: '8',
   postalCode: 'MD-3100',
   notes: 'Не звонить в домофон'
},
 DELIVERY_METHODS: [
  'Курьерская доставка',
  'Самовывоз',
  'Экспресс доставка'
],
 PAYMENT_METHODS: [
  'Наличными курьеру',
  'Картой онлайн',
  'Банковский перевод'
],
 FILTER_PRICES: {
  MIN: 100,
  MAX: 50000,
  RANGES: [
   { min: 1000, max: 5000 },
   { min: 5000, max: 15000 },
   { min: 15000, max: 30000 }
  ]
}
};
```

o Priority Test Cases for Safe Mode

Week 1: Core Functionality (150 test cases)

Day 1-2: Smoke Testing (40 cases)

	_		
typescript			

```
const SMOKE_TESTS = [

'Homepage loads in Russian',

'Homepage loads in Romanian',

'Language switching works',

'Navigation menu functional',

'Search functionality basic',

'Product catalog displays',

'Add to cart works',

'Cart page displays items',

'Cart counter updates',

'Checkout form loads (no submission)'

];
```

Day 3-5: Extended Functional (110 cases)

typescript	

```
const CORE_FUNCTIONALITY = {
 MULTILINGUAL: [
  'Russian interface display',
  'Romanian interface display',
  'Language switching preserves cart',
  'Search works in both languages',
  'Category navigation in both languages',
  'Form labels translation',
  'Error messages translation',
  'Cart preservation during language switch'
 ],
 PRODUCT_CATALOG: [
  'Product listing display',
  'Product detail page',
  'Product images and gallery',
  'Price and discount display',
  'Cashback calculation display',
  'Stock availability display',
  'Product characteristics',
  'Related products'
 ],
 CART_OPERATIONS: [
  'Add product to cart',
  'Update quantity in cart',
  'Remove product from cart',
  'Clear entire cart',
  'Cart total calculations',
  'Cashback calculations in cart',
  'Cart state persistence',
  'Cross-language cart maintenance'
 1
};
```

Week 2: User Journey & Forms (120 cases)

User Authentication (40 cases)

```
const AUTH_TESTS = [
// Email-only registration (NO SMS)
 'Registration with valid email',
 'Registration with invalid email',
 'Registration with weak password',
 'Registration with mismatched passwords',
 'Registration with missing fields',
 'Registration form validation',
// Login scenarios
'Login with valid credentials',
'Login with invalid email',
'Login with wrong password',
'Login form validation',
'Remember me functionality',
'Logout functionality'
];
```

Checkout Forms (80 cases) - SAFE MODE

typescript		

```
const CHECKOUT_TESTS = [
 // Form filling (NO FINAL SUBMISSION)
 'Delivery form with valid data',
 'Delivery form validation',
 'Phone number format validation',
 'Email format validation',
 'Address field requirements',
 'City selection (Moldova cities)',
 'Postal code validation',
 // Delivery method selection
 'Courier delivery selection',
 'Pickup delivery selection',
 'Express delivery selection',
 'Delivery cost calculation',
 // Payment method selection
 'Cash payment selection',
 'Card payment selection',
 'Transfer payment selection',
 // Order review (STOPPING POINT)
 'Order summary display',
 'Delivery info verification',
 'Payment method verification',
 'Order totals verification',
 'Product list verification'
 // A NO ACTUAL ORDER PLACEMENT
];
```

Week 3: Advanced Features (80 cases)

Search and Filtering (40 cases)

```
const SEARCH_FILTER_TESTS = [

'Text search in Russian',

'Text search in Romanian',

'Search results pagination',

'Search suggestions',

'Empty search results',

'Price range filtering',

'Brand filtering',

'Category filtering',

'Combined filters',

'Filter reset functionality'

];
```

Mobile Experience (40 cases)

```
typescript

const MOBILE_TESTS = [

'Mobile navigation menu',

'Mobile search functionality',

'Mobile product browsing',

'Mobile cart management',

'Mobile checkout forms',

'Click-to-call phone numbers',

'Mobile responsive layout',

'Touch-friendly interactions'

];
```

Week 4: Cross-browser & Polish (50 cases)

Browser Compatibility (40 cases)

```
typescript

const BROWSER_TESTS = {

CHROME: ['Core flow', 'Forms', 'Mobile view'],

FIREFOX: ['Core flow', 'Forms', 'Mobile view'],

SAFARI: ['Core flow', 'Forms', 'Mobile view'],

EDGE: ['Core flow', 'Forms', 'Mobile view']

};
```

Test Implementation Guidelines (Safe Mode)

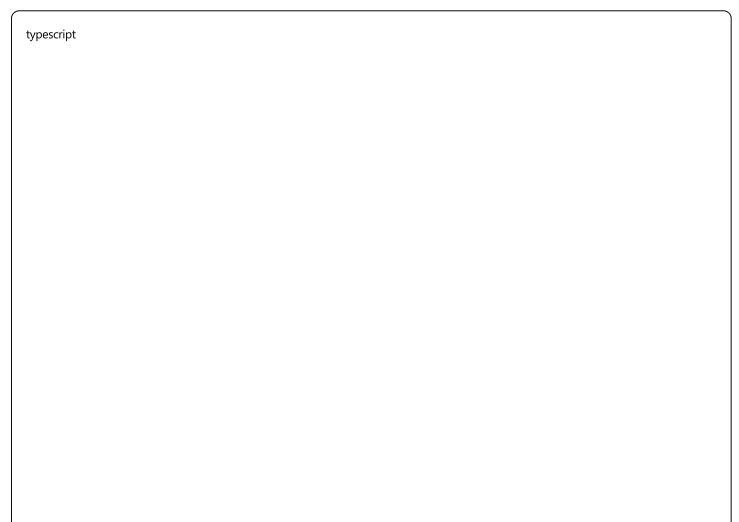
Page Object Model Structure

typescript	

```
export abstract class BasePage {
 constructor(protected page: Page) {}
 async goto(url: string) {
  await this.page.goto(url);
 }
 async switchLanguage(lang: 'ru' | 'ro') {
  const switcher = lang === 'ru' ? SELECTORS.LANGUAGE_SWITCHER_RU : SELECTORS.LANGUAGE_SWITCHER_RO;
  await this.page.click(switcher);
  await this.page.waitForLoadState('networkidle');
 }
 async waitForLoad() {
  await this.page.waitForLoadState('networkidle');
 }
}
export class CheckoutPage extends BasePage {
 async fillDeliveryForm(data: DeliveryData) {
  await this.page.fill(SELECTORS.DELIVERY_FIRST_NAME, data.firstName);
  await this.page.fill(SELECTORS.DELIVERY_LAST_NAME, data.lastName);
  await this.page.fill(SELECTORS.DELIVERY_EMAIL, data.email);
  await this.page.fill(SELECTORS.DELIVERY_PHONE, data.phone);
  await this.page.fill(SELECTORS.DELIVERY_CITY, data.city);
  await this.page.fill(SELECTORS.DELIVERY_STREET, data.street);
  await this.page.fill(SELECTORS.DELIVERY_BUILDING, data.building);
  await this.page.fill(SELECTORS.DELIVERY_APARTMENT, data.apartment);
  await this.page.fill(SELECTORS.DELIVERY_POSTAL_CODE, data.postalCode);
  if (data.notes) {
   await this.page.fill(SELECTORS.DELIVERY_NOTES, data.notes);
  }
 }
 async selectDeliveryMethod(method: string) {
  await this.page.click(`text="${method}"`);
 }
 async selectPaymentMethod(method: string) {
  await this.page.click(`text="${method}"`);
 }
```

```
async reviewOrder(): Promise < OrderReview > {
 // A SAFE MODE: Only review, never submit
  const review = await this.page.locator(SELECTORS.ORDER_REVIEW);
  await expect(review).toBeVisible();
  return {
   deliveryInfo: await this.getDeliveryInfo(),
   paymentMethod: await this.getPaymentMethod(),
   orderItems: await this.getOrderItems(),
   totals: await this.getOrderTotals()
  };
}
// / INTENTIONALLY EXCLUDED FOR SAFETY
// async placeOrder() {
// // This method is excluded to prevent real orders
//}
}
```

Safety Utilities



```
export class SafeTestUtils {
// Prevent accidental order submission
 static async blockOrderSubmission(page: Page) {
  await page.addInitScript(() => {
   // Block any form submissions to order endpoints
   const originalSubmit = HTMLFormElement.prototype.submit;
   HTMLFormElement.prototype.submit = function() {
    const action = this.action || window.location.href;
    if (action.includes('/order') || action.includes('/checkout/submit')) {
      console.warn(' A BLOCKED: Order submission prevented in test mode');
      return false;
    return originalSubmit.call(this);
   };
  });
 }
 static generateSafeEmail(): string {
  return `test.safe.${Date.now()}@example.com`;
 }
 static generateSafePhone(): string {
  return `+37360${Math.random().toString().slice(2, 8)}`;
 }
```

Test Execution & Safety

Safety Checklist

```
const SAFETY_CHECKLIST = {
 BEFORE_TESTS: [
  'Verify test data uses safe email addresses',
  'Confirm no SMS endpoints are called',
  'Check that checkout stops at review',
  'Validate no real orders can be placed'
 ],
 DURING_TESTS: [
  'Monitor for unexpected order submissions',
  'Verify cart operations don\'t affect real inventory',
  'Check language switching works correctly',
  'Ensure form validations work'
 ],
 AFTER_TESTS: [
  'Clean up any test user accounts',
  'Clear any test cart data',
  'Verify no real orders were created',
  'Review test execution logs'
 ]
};
```

CI/CD Configuration

yaml

.github/workflows/safe-tests.yml name: Pandashop Safe Tests on: [push, pull_request] jobs: safe-test: runs-on: ubuntu-latest env: SAFE_MODE: true NO_ORDER_SUBMISSION: true steps: - uses: actions/checkout@v3 - uses: actions/setup-node@v3 - run: npm ci - run: npx playwright install - name: Run Safe Tests run: npm run test:safe - name: Verify No Orders Created run: npm run verify:no-orders

o Implementation Priority

- 1. First Generate: Safe Page Objects (no order submission methods)
- 2. Then: Form filling and validation helpers
- 3. After: Multilingual support utilities
- 4. **Next**: Cart management without checkout completion
- 5. **Finally**: Cross-browser compatibility tests

Safety Features:

- No SMS integration
- No final order submission
- Z Email-only registration
- Checkout stops at review
- Safe test data generation
- Order submission blocking

This specification provides complete foundation for safely testing Pandashop.md without creating real orders or SMS issues!