

NexGen Website Enhancements & Update Report

Project: NexGen Trading Academy / NexGen School of Financial Market

Date: July 27, 2026

Target Audience: Client Executive Summary & Technical Developer Reference

Repository: `git@github.com:nextgenclasses19-byte/nexgenonline.git` (main branch)

PART 1: Non-Technical Client Overview

This section explains all new website features, fixes, and improvements in simple, non-technical terms for business review.

1. 🖱️ 1-Click Excel / CSV Downloads for All Enquiries & Sales

- **What's New:** You can now download your website's customer data directly into Excel spreadsheets (.csv) from the admin panel with a single click.
- **What You Can Download:**
 - Contact Us messages & general enquiries
 - Course enrollments, Branch enrollments, & Home Tuition

requests

- Sales data for Courses, E-Books, and Webinars
- CSR Donations, Franchise leads, & Internship applications

2. 🎨 Upgraded Blog & Content Editor with Links & Multi-Image Support

- **What's New:** Writing blogs and school content in your admin panel is now easier and more powerful.
- **Key Capabilities:**
 - **Hyperlink Text:** Highlight any text and click "**Insert Hyperlink**" to link it to any website or page.
 - **Insert Multiple Images:** Easily embed multiple images with captions anywhere inside blog posts and school units.
 - **Formatting Buttons:** Quick buttons for Bold, Italic, Headings, Bullet Lists, and Callout Highlight Boxes.
 - **Live Preview Button:** Click "**Toggle Live Preview**" to see exactly how your post and clickable links will look on the website before publishing.

3. 👍👎 Like & Dislike Feedback System

- **What's New:** Visitors can now leave **Like** or **Dislike** feedback on:
 - All Blog Posts
 - All Free School Content units & books
- **Benefits:** Includes live counters that update instantly without refreshing the page, helping you see which topics resonate most with your audience.

4. ✉️ Automated Email Notifications

- **Customer Purchase Receipts:** As soon as a customer completes a purchase for a Course, E-Book, or Webinar, the website automatically sends a professional confirmation receipt email to their inbox.
- **Enquiry Acknowledgements:** When a user submits any enquiry or contact form, the system automatically sends a polite "We

received your enquiry" response from a no-reply address (no-reply@elliotttneo.com).

5. **Standardized Branding & Author Names**

- **Website Branding:** Updated headers, navbar dropdowns, and mobile drawer navigation to display:

"NexGen School of Financial Market – Affiliated by TAAI"

- **Free Content Branding:** Removed individual personal author names from the Free Content section and standardized all module/book author tags to:

"NexGen Trading Academy"

6. **Enrolment & Revenue Control Center Fixed**

- **Enrolment Dashboard:** Fixed the enrollment summary box so it clearly breaks down numbers into **Course Enrollments**, **Branch Enrollments**, and **Home Tuition Requests** with direct clickable links to each group.
- **Automatic Student Enrollment:** When a customer pays for a course, they are automatically enrolled and added to your student list.
- **Revenue Dashboard:** Fixed Total Revenue tracking to automatically include income from **Courses**, **E-Books**, **Webinars**, and **CSR Donations**.

7. **CSR Charity Milestones & Restored Transaction Data**

- **CSR Milestones:** Added real-time tracking for charity causes (Child Welfare, Cremation Assistance, General Fund) so donations automatically update goal progress bars.
 - **Transaction History:** Confirmed all website sales records (17 transactions) are intact and safely stored in your system database.
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PART 2: Technical Developer Reference

This section provides complete technical specifications, file paths, schema changes, and logic implementations for the developer team.

1. Repository & Commit History

- **Repository:** `git@github.com:nextgenclasses19-byte/nexgenonline.git`
 - **Branch:** `main`
 - **Latest Commit Hash:** `6d6f53a`
 - **Key Commit Messages:**
 - Add rich text and hyperlink toolbar to Django admin blog editor and formatted_content safe link rendering
 - Fix enrolment dashboard counts, CSR milestone payment sync & revenue dashboard calculations
 - Implement enquiry/sales CSV export, free content like/dislike, automated purchase/enquiry emails, branding update to NexGen School – Affiliated by TAAI, author name updates, and transaction restoration
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2. Model Schema & Property Changes (`core/models.py`)

BlogPost Model (`core/models.py`)

- Added fields: `views` (`PositiveIntegerField`), `likes` (`PositiveIntegerField`), `dislikes` (`PositiveIntegerField`).
- Updated `content` field help text.
- Added `@property` `def formatted_content(self):`
 - Converts Markdown links `[Text] (URL)` to `<a href="URL" target="_blank" rel="noopener noreferrer">Text</a>`.
 - Ensures all raw HTML `<a>` tags contain `target="_blank" rel="noopener noreferrer"`.
 - Wraps unformatted text with `linebreaks` if paragraph HTML tags are absent.

ReadableBook Model (`core/models.py`)

- Added fields: `likes` (`PositiveIntegerField`), `dislikes` (`PositiveIntegerField`).
 - Updated `author` field default to `'NexGen Trading Academy'`.
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3. Database Migrations

- `core/migrations/0065_add_blog_views_likes_dislikes.py`: Added `views`, `likes`, `dislikes` fields to `BlogPost`.
 - `core/migrations/0066_add_readablebook_likes_dislikes.py`: Added `likes`, `dislikes` fields to `ReadableBook` and altered `author` default.
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4. Admin Customizations (`core/admin.py`)

CSV Export Action

- Implemented `export_as_csv(modeladmin, request, queryset)` function in `core/admin.py`.
- Attached `actions = [export_as_csv]` to 13 `ModelAdmin` classes:
 - `ContactMessageAdmin, CourseEnrollmentAdmin, BranchEnrollmentAdmin, HomeTuitionRegistrationAdmin, InternshipApplicationAdmin, MentorRegistrationAdmin, WebinarRegistrationAdmin, ExpertSessionRegistrationAdmin`
 - `CourseOrderAdmin, EbookOrderAdmin, WebinarOrderAdmin, CSRDonationAdmin`

Editor Toolbar Assets (Media Class Registration)

Attached custom media assets to `BlogPostAdmin`, `ReadableBookAdmin`, and `BookChapterAdmin`:

```
class Media:
    js = ('admin/js/blog_editor_toolbar.js',)
    css = {'all': ('admin/css/blog_editor_toolbar.css',)}
```

5. Frontend & Toolbar Assets

- **JavaScript:** `core/static/admin/js/blog_editor_toolbar.js`
 - Injects toolbar container above `#id_content`.
 - Implements `insertHyperlink()`: Selection-aware hyperlink wrapper.
 - Implements `insertImage()`: Embeds responsive `<figure><img ...><figcaption>...</figure>`

- `figcaption></figure>`.
 - Implements `togglePreview()`: Live HTML/link preview container.
 - **CSS:** `core/static/admin/css/blog_editor_toolbar.css`
 - Styles dark-theme toolbar buttons, link highlights, and preview box.
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6. View Logic & API Endpoints (`core/views.py`)

- **`book_like_dislike(request, slug)`**: AJAX endpoint for book reactions at `/books/<slug>/react/`.
 - **`_ensure_course_enrollment(order)`**: Idempotent helper called on `CourseOrder` payment completion to populate `CourseEnrollment`.
 - **`_finalize_donation_paid(donation)`**: Auto-links unassigned donations to matching cause milestone and recalculates `CSRMilestone.achieved_amount`.
 - **`_send_purchase_confirmation_email(order)`**: Sends purchase receipt via `django.core.mail.send_mail`.
 - **`_send_enquiry_acknowledgement_email(enquiry)`**: Sends acknowledgement email from `NO_REPLY_EMAIL`.
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7. Verification & Test Suite Summary

- **Django System Check:** `manage.py check` passed with 0 issues identified.
- **Unit Test Suite:** `manage.py test core.tests_qa` passed with 48 / 48 OK.
- **Database Status:** All 17 website transaction records synced and restored to 'paid'. All 118 readable books updated to `author = 'NexGen Trading Academy'`.