Buy-to-Let Property Viability Calculator

A comprehensive web application for calculating the viability of buy-to-let property investments in the UK, with accurate stamp duty calculations, ROI projections, and cash flow analysis.

Features

- Property Investment Analysis: Calculate total investment required including deposit, stamp duty, and fees
- Stamp Duty Calculator: Accurate calculations for:
 - England (Stamp Duty Land Tax)
 - Wales (Land Transaction Tax)
 - Different property types: First home, next home, or additional property
- Monthly Cash Flow: Detailed breakdown of income vs expenses
- Annual Returns: ROI calculation with corporation tax considerations
- Mortgage Stress Test: Checks if property meets the 5.5% stress test requirements
- Airbnb Income Projections: Based on occupancy rates and nightly prices

Tech Stack

- Next.js 14: React framework with App Router
- **TypeScript**: Type-safe development
- Tailwind CSS: Utility-first CSS framework
- Lucide React: Icon library

Getting Started

Prerequisites

- Node.js 18+ installed
- npm or yarn package manager

Installation

1. Clone the repository:

bash

git clone https://github.com/yourusername/btl-property-calculator.git cd btl-property-calculator

2. Install dependencies:

bash

npm install

or

yarn install

3. Run the development server:

bash

npm run dev
or
yarn dev

4. Open http://localhost:3000 in your browser

Deployment

Deploy to Vercel

The easiest way to deploy this app is using Vercel:

- 1. Push your code to GitHub
- 2. Import your repository in Vercel
- 3. Vercel will automatically detect Next.js and configure the build settings
- 4. Click "Deploy"

Show Image

Environment Variables

No environment variables are required for this application.

Usage

1. Enter Property Details:

- Purchase price
- Deposit percentage
- Country (England/Wales)
- Property type (First home/Next home/Additional property)
- Renovation and legal costs

2. Configure Mortgage:

- Interest rate
- Mortgage term
- Arrangement fees

3. Set Rental Income Parameters:

- Average price per night (for Airbnb)
- Expected occupancy rate
- Management fees
- Running costs

4. View Results:

- Total initial investment required
- Monthly cash flow breakdown
- Annual profit and ROI
- Mortgage stress test results
- Stamp duty breakdown

Calculations

Stamp Duty Rates (2024/2025)

England - First-time Buyers:

- 0% on first £425,000
- 5% on £425,001 to £625,000
- Standard rates apply above £625,000

England - Main Residence:

- 0% up to £250,000
- 5% on £250,001 to £925,000
- 10% on £925,001 to £1,500,000
- 12% above £1,500,000

England - Additional Properties:

• 3% surcharge on all bands

Wales rates vary with similar structures but different thresholds.

Key Formulas

- Monthly Income: (365 × Occupancy Rate / 100) / 12 × Price per Night)
- **ROI**: (Annual Profit / Total Investment) × 100
- Stress Test: Property must generate 125% of mortgage payment at 5.5% interest

Contributing

Pull requests are welcome. For major changes, please open an issue first to discuss what you would like to change.

License

MIT License - see LICENSE file for details

Support

For issues or questions, please open an issue on GitHub.