

BUSINESS SIMULATOR

Ultra Pro Max Edition

KALI LINUX

User Installation & Operation Manual

Version:	Ultra Pro Max v3.0
Platform:	Kali Linux (Debian-based)
Python:	3.10+ Required
Release Date:	June 2026
Website:	https://issu321.github.io/Large-Scale-Company-Management-Das

QUICK START: Download → Extract → Run install.sh → Open Browser

Professional Business Management & Simulation Platform
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1. SYSTEM REQUIREMENTS

Before installing Business Simulator on Kali Linux, ensure your system meets the following minimum requirements:

Component	Minimum Requirement	Recommended
Operating System	Kali Linux 2023.1+ (Debian-based)	Kali Linux 2024.1+ (Latest)
Processor	Dual-core 1.6 GHz	Quad-core 2.0 GHz+
RAM	4 GB	8 GB or higher
Storage	2 GB free space	5 GB free space
Python	Python 3.10+	Python 3.11 or 3.12
Internet	Required for initial setup	Broadband connection
Browser	Firefox / Chromium	Latest Chrome / Firefox

Pre-Installed Packages Check: Run the following command to verify your Python environment:

```
python3 --version && pip3 --version
```

If Python is not installed, run:

```
sudo apt update && sudo apt install -y python3 python3-venv python3-pip
```

2. DOWNLOADING THE SOFTWARE

Obtain the latest release of Business Simulator from the official source. The package is distributed as a compressed archive (.zip or .tar.gz).

Official Website:

<https://issu321.github.io/Large-Scale-Company-Management-Dashboard/>

Download Methods:

Method A: Browser Download

Visit the website above, navigate to the Downloads section, and click the Kali Linux package link.

Method B: wget (Terminal)

Use the terminal to download directly:

```
wget -O BusinessSimulator-Kali.zip https://your-download-link.zip
```

Method C: curl (Terminal)

Alternative download using curl:

```
curl -L -o BusinessSimulator-Kali.zip https://your-download-link.zip
```

Expected File: *BusinessSimulator-Kali-v3.0.zip (approx. 50-100 MB)*

3. EXTRACTING THE ARCHIVE

After downloading, you must extract the compressed archive to access the application files.

Step 1: Navigate to your Downloads folder

```
cd ~/Downloads
```

Step 2: Extract the ZIP archive

```
unzip BusinessSimulator-Kali-v3.0.zip
```

Step 3: Verify extraction

```
ls -la BusinessSimulator-Kali-v3.0/
```

Expected Directory Structure after extraction:

File/Folder	Description
<code>install.sh</code>	Main installation script (creates venv, installs deps)
<code>start.sh</code>	Application launcher script (runs the Flask server)
<code>app.py</code>	Main Flask application entry point
<code>requirements.txt</code>	Python dependency list
<code>static/</code>	CSS, JS, images, and frontend assets
<code>templates/</code>	HTML template files
<code>data/</code>	JSON data storage directory (created on first run)
<code>desktop_paths.py</code>	Cross-platform path resolver
<code>README.md</code>	Project documentation

4. PLACING FILES IN DOCUMENTS FOLDER

For optimal organization and to follow Kali Linux best practices, move the extracted folder to your Documents directory.

Step 1: Move the extracted folder to Documents

```
mv ~/Downloads/BusinessSimulator-Kali-v3.0 ~/Documents/
```

Step 2: Navigate to the project root directory

```
cd ~/Documents/BusinessSimulator-Kali-v3.0
```

Step 3: Confirm you are in the correct directory

```
pwd
```

Expected output: /home/your-username/Documents/BusinessSimulator-Kali-v3.0

Important: The `install.sh` script must be run from the project root directory (where `app.py` is located). Always ensure you are in the correct folder before running any scripts.

5. RUNNING install.sh

The install.sh script is the heart of the setup process. It automates the entire environment configuration — creating a Python virtual environment, installing all required packages, and preparing the application for launch.

What install.sh Does:

- 1 Checks for Python 3.10+ and pip3 availability
- 2 Creates a dedicated Python virtual environment (venv/)
- 3 Upgrades pip to the latest version inside the venv
- 4 Installs all dependencies from requirements.txt
- 5 Verifies critical packages (Flask, SQLAlchemy, etc.)
- 6 Creates necessary data directories
- 7 Sets correct file permissions
- 8 Displays a success message with next steps

Execution Commands:

Step 1: Make the script executable (first time only)

```
chmod +x install.sh
```

Step 2: Run the installation script

```
./install.sh
```

Step 3: Wait for completion

The script will display progress indicators. Do NOT interrupt the process. Typical installation time: 2-5 minutes depending on internet speed.

Success Indicator: You will see a green confirmation message: "Installation Complete! Run ./start.sh to launch."

Virtual Environment Prompt: During installation, you may be asked whether you have already created a virtual environment. Type exactly as instructed:

Your Input	Action Taken
yes	Script assumes venv exists and skips creation
no	Script creates a new venv automatically (RECOMMENDED)
exit	Stops the installation immediately

6. LAUNCHING THE APPLICATION

Once installation is complete, use the `start.sh` script to launch Business Simulator. This script handles virtual environment activation, dependency verification, and server startup.

Launch Commands:

Step 1: Make the launcher executable (first time only)

```
chmod +x start.sh
```

Step 2: Run the application

```
./start.sh
```

What happens when you run `start.sh`:

Phase	Description	Status
Banner Display	Shows the Business Simulator ASCII art logo	<i>Visual</i>
Environment Check	Verifies Python 3, pip3, and system compatibility	<i>Auto</i>
Pre-flight	Confirms <code>app.py</code> exists in the current directory	<i>Auto</i>
Venv Setup	Creates <code>venv/</code> if missing, or uses existing one	<i>Auto</i>
Dependency Install	Installs/upgrades packages from <code>requirements.txt</code>	<i>Auto</i>
Server Launch	Starts Flask development server on localhost	<i>Auto</i>
URL Display	Prints the local access URL to the terminal	<i>Manual</i>

Expected Terminal Output: After successful launch, you will see the Business Simulator banner, followed by dependency installation progress (spinner animation), and finally:

```
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
```

7. ACCESSING THE DASHBOARD

After the server starts, the application is accessible via your web browser. The terminal will display the exact URL.

Default Access URL:

```
http://127.0.0.1:5000
```

Alternative Localhost URL:

```
http://localhost:5000
```

How to Open:

- 1 Copy the URL from the terminal output (highlight and right-click > Copy)
- 2 Open your preferred web browser (Firefox, Chromium, Chrome)
- 3 Paste the URL into the address bar and press Enter
- 4 The Business Simulator dashboard will load immediately

Tip: You can also open the browser directly from terminal:

```
firefox http://127.0.0.1:5000 &
```

```
chromium http://127.0.0.1:5000 &
```

Important: Do NOT close the terminal window while using the application. The Flask server runs in the foreground. Press CTRL+C in the terminal to stop the server when finished.

8. UPGRADED ANIMATED WEBSITE

Business Simulator features a modern, fully animated web interface designed for an immersive user experience. The dashboard is responsive, visually stunning, and optimized for both desktop and mobile viewing.

Website Features:

Feature	Description
Animated Transitions	Smooth page transitions and element animations using CSS3 and JavaScript
Real-time Charts	Interactive Plotly.js charts with live data updates
Dark/Light Mode	Toggle between professional dark and clean light themes
Responsive Layout	Adapts seamlessly to any screen size (mobile, tablet, desktop)
Live Notifications	Toast alerts for simulation events and system messages
Drag & Drop	Intuitive drag-and-drop interface for dashboard customization
Data Export	One-click export to Excel, PDF, and CSV formats
QR Code Generation	Instant QR codes for sharing reports and data
Business Twin AI	AI-powered business simulation and forecasting engine
Secure Sessions	JWT-based authentication with session management

Dashboard Modules:

Module	Function
Company Overview	High-level KPIs, revenue, profit margins, employee count
Financial Simulation	Run what-if scenarios, forecast revenue and expenses
Market Analysis	Competitor tracking, market share visualization, trend analysis
HR Management	Employee database, payroll simulation, performance metrics
Inventory Control	Stock levels, supply chain simulation, reorder alerts

Report Generator	Auto-generate professional PDF reports with charts and tables
Export Center	Download data in Excel, CSV, or custom formats
Settings Panel	Configure simulation parameters, themes, and user preferences

Same as Windows: All features, modules, and functionality are identical to the Windows version. The Kali Linux edition provides the same professional business simulation experience with native Linux performance.

9. FEATURES OVERVIEW

Business Simulator Ultra Pro Max v3.0 delivers enterprise-grade business management tools with an intuitive web-based interface. Below is a comprehensive overview of all available features.

Core Capabilities:

Financial Modeling

Build detailed financial models with revenue projections, cost analysis, and break-even calculations. Supports multiple currencies and fiscal year configurations.

Market Simulation

Simulate market conditions, competitor behavior, and consumer demand shifts. Test strategies in a risk-free virtual environment before real-world deployment.

Workforce Analytics

Analyze employee productivity, simulate hiring/firing scenarios, and optimize organizational structure with AI-driven recommendations.

Supply Chain Optimization

Model inventory levels, lead times, and logistics costs. Identify bottlenecks and optimize procurement strategies.

Risk Assessment

Quantify business risks using Monte Carlo simulations. Generate heat maps and probability distributions for informed decision-making.

Scenario Planning

Create and compare multiple business scenarios side-by-side. Evaluate best-case, worst-case, and most-likely outcomes.

Advanced Tools:

Tool	Purpose	Output
Prophet Forecasting	Time-series prediction using Facebook Prophet	Forecast charts + CSV data
Monte Carlo Engine	Probabilistic risk modeling	Distribution histograms
Business Twin AI	Digital twin of your company	Real-time simulation dashboard
ReportLab Generator	Automated PDF report creation	Professional PDF documents
Plotly Interactive	Dynamic data visualization	Exportable HTML/PNG charts
Excel Exporter	Multi-sheet workbook generation	.xlsx files with formatting

10. TROUBLESHOOTING

If you encounter issues during installation or operation, refer to the solutions below. Most problems can be resolved with simple commands.

Common Issues & Solutions:

Issue	Cause	Solution
Permission Denied	Script not executable	<code>chmod +x install.sh && chmod +x start.sh</code>
Python not found	Python 3 not installed	<code>sudo apt install -y python3 python3-venv python3-pip</code>
Port 5000 in use	Another app using the port	Kill process: <code>fuser -k 5000/tcp</code> or change port in <code>start.sh</code>
Module not found	Missing pip dependency	Run: <code>./venv/bin/pip install -r requirements.txt</code>
Venv creation fails	python3-venv not installed	<code>sudo apt install -y python3-venv</code>
Browser cannot connect	Firewall blocking localhost	<code>sudo ufw allow 5000/tcp</code> or check browser proxy settings
Slow loading	Large dataset or low RAM	Close other applications or increase swap space
Export fails	Missing write permissions	Ensure <code>~/Documents/BusinessSimulator/</code> is writable

Reset Everything: If you need a completely fresh start, delete the venv and data folders, then re-run `install.sh`:

```
rm -rf venv/ data/ && ./install.sh
```

Get Help: For additional support, visit the project website or check the `README.md` file in the project root.

Website: <https://issu321.github.io/Large-Scale-Company-Management-Dashboard/>

11. UNINSTALLATION

To completely remove Business Simulator from your Kali Linux system, simply delete the project folder. No system-wide changes are made during installation.

Complete Removal:

```
rm -rf ~/Documents/BusinessSimulator-Kali-v3.0
```

What Gets Removed:

Item	Location	Action
Application files	~/Documents/BusinessSimulator-Kali-v3.0/	Deleted
Virtual environment	~/Documents/BusinessSimulator-Kali-v3.0/venv/	Deleted
User data	~/Documents/BusinessSimulator-Kali-v3.0/data/	Deleted
System packages	None installed globally	Nothing to remove
Config files	None outside project folder	Nothing to remove

Clean uninstall: No registry entries, no system services, and no global Python packages are left behind. Business Simulator is 100% portable and self-contained.

THANK YOU

for choosing Business Simulator

Ultra Pro Max Edition | Kali Linux Optimized

Website: <https://issu321.github.io/Large-Scale-Company-Management-Dashboard/>

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