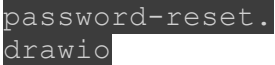# Test Cases For The Drawio Converter
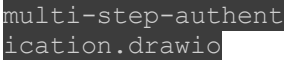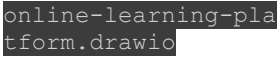## Model Used GPT - 4.1
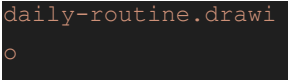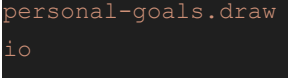
1. For Sequence Diagrams

Use Case	Prompt	Diagram Output	Validity Valid/Invalid
To Test The Sequence Diagram For User Login Flow Category - Easy	**1. User Login Flow** ● User enters credentials → System validates → System returns success/failure.	user-login-flow.drawio	Valid
To Show The Flow For A Password Reset Category - Easy	**Password Reset** ● User requests reset → System sends OTP/email → User verifies → Password updated.	password-reset.drawio	Valid
To Show The Process For An	**E-commerce Checkout Process**	ecommerce-checkout.drawio	Valid

Ecommerce Checkout Category - Medium	● User adds product → Cart updates → Checkout → Payment gateway → Order confirmation		
Flow Showing A Multi Step Authentication System Category - Hard	**Multi-Step Authentication System** ● User logs in → MFA request → SMS service sends code → User verifies → Access granted.	`multi-step-authentication.drawio`	Valid
Flow Showing An Online Learning Platform(LMS) Category - Hard	**Online Learning Platform (LMS)** ● Student enrolls → System registers enrollment → Content service loads modules → Progress	`online-learning-platform.drawio`	Valid

	tracking → Certificate generation.		
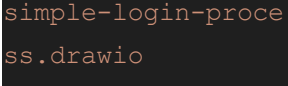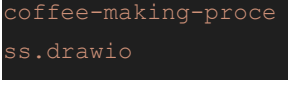
2. For Mindmap Diagrams
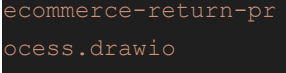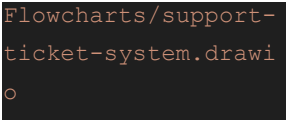
Use Case	Prompt	Diagram Output	Validity Valid/Invalid
Daily Routine Mind Map Category - Easy	**Daily Routine Mind Map** ● Morning → Afternoon → Evening → Night → Tasks, habits, activities.	`daily-routine.drawio`	Valid
Personal Goals Mind Map Category - Easy	**Personal Goals** ● Health → Career → Finance → Learning → Relationships →	`personal-goals.drawio`	Valid

	Habits.		
Mindmap Showing Website Development Mind Map Category - Medium	**Website Development** ● UI/UX → Frontend → Backend → Database → Deployment → SEO.	`website-development.drawio`	Valid
Mindmap Showing Software Architecture Planning Category - Hard	**Software Architecture Planning** ● Modules → API → Database → Microservices → Security → Observability → Scalability.	`software-architecture-planning.drawio`	Valid
Digital Transformation Strategy MindMap Category - Hard	**Digital Transformation Strategy** ● Automation → Cloud migration → Data	`digital-transformation-strategy.drawio`	Valid

	strategy → Tools → Training → KPIs.		

3. For Flowchart Diagrams

Use Case	Prompt	Diagram Output	Validity Valid/Invalid
Flowchart Displaying Login Process. Category - Easy	**Simple Login Process** ● Start → Enter username/ password → Validate → Success? → Yes: Dashboard / No: Error.	`simple-login-process.drawio`	Valid
Flowchart Displaying Coffee Making Process	**Coffee Making Process** ● Start → Choose	`coffee-making-process.drawio`	Valid

Category - Easy	coffee type → Brew → Add sugar/milk → Serve → End.		
Flowchart Showing Ecommerce Return Process	**6. E-commerce Return Process** ● Start → Customer requests return → Check eligibility → Approve/Reject → Refund or notify → Close.	`ecommerce-return-process.drawio`	Valid
Flowchart For A Support Ticket System Category - Medium	**Support Ticket System** ● Start → User submits ticket → Categorize priority → Assign to agent → Resolve → Close.	`Flowcharts/support-ticket-system.drawio`	Valid

| Flowchart For A Software Development Pipeline

Category - Hard	**13. Software Deployment Pipeline** ● Developer pushes code → CI build → Tests → Staging deploy → QA approval → Production deploy → Monitoring.	`software-deployment-pipeline.drawio`	Valid

4. ER Diagrams

Use Case	Prompt	Output	Validity Valid/Invalid
ER Diagram For Simple Banking Application

Category - Easy | **1. Simple Banking System**

Entities: Customer, Account, Transaction Relationships:

● Customer owns Accounts
● Account has Transactions | `simple-banking-system.drawio` | Valid |

	Attributes: names, balance, date.		
ER Diagram For A Basic School System Category - Easy	**2. Basic School System** Entities: Student, Class, Teacher Relationships: - Student belongs to Class - Teacher teaches Class.	`basic-school-system.drawio`	Valid
ER Diagram For A Basic Library Category - Easy	**3. Basic Library** Entities: Book, Member, Loan Relationships: - Member borrows Book via Loan.	`basic-library.drawio`	Valid
ER Diagram For Hospital Appointment System	**2. Hospital Appointment System** Entities: Patient,	`hospital-appointment-system.drawio`	Invalid - Issue With Lines

Category - Medium	Doctor, Appointment, Prescription, Payment Relationships: ● Patient books Appointment ● Doctor issues Prescriptions ● Appointment generates Payment.		
ER Diagram For Online Learning Platform Category - Medium	**3. Online Learning Platform** Entities: Student, Course, Module, Enrollment, Assignment, Grade Relationships: ● Student enrolls in Course ● Course has Modules ● Student submits Assignments	`online-learning-platform.drawio`	Valid

	● Assignments receive Grades.		