

Using JWT Authentication in Food Delivery Application

✓ What is JWT?

JWT (JSON Web Token) is a secure token-based authentication mechanism used to verify a user without storing session data on the server.

In the Food Delivery App, JWT is used for validating:

- ✓ Users
 - ✓ Restaurants
 - ✓ Delivery Partners
 - ✓ Admin Access
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🔒 Why JWT?

Feature	Benefit
Stateless	No session required on server
Secure Authorization	Safely allows access to protected APIs
Role-based Access	Only allowed users can perform actions
Works across Frontend + Mobile	Standardized auth

➡ JWT Flow in Food Delivery App



- 1 User logs in → sends email + password
 - 2 Backend validates credentials
 - 3 JWT Token is generated & sent to frontend
 - 4 Frontend stores token in **Local Storage / HTTP-only cookie**
 - 5 Every protected API call sends token in **Authorization header**
 - 6 Middleware checks token → grants or denies access
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Backend Implementation (Node.js + Express + MongoDB)

✓ Generate Token on Login

```
const jwt = require("jsonwebtoken");
const SECRET_KEY = "FoodAppSecretKey";

app.post("/login", async (req, res) => {
  const user = await User.findOne({ email: req.body.email });

  if (!user) return res.status(404).json({ message: "User not found!" });

  const token = jwt.sign({ id: user._id, role: user.role },
SECRET_KEY, {
    expiresIn: "1d",
  });

  res.json({ message: "Login Success ✓", token });
});
```

✓ Middleware to Protect APIs

```
const verifyToken = (req, res, next) => {
  const token = req.headers["authorization"]?.split(" ")[1];

  if (!token) return res.status(401).json({ message: "Token Missing!" });

  try {
    const decoded = jwt.verify(token, SECRET_KEY);
    req.user = decoded;
    next();
  } catch (err) {
    res.status(403).json({ message: "Invalid Token!" });
  }
};
```

Example Protected API

```
app.get("/profile", verifyToken, (req, res) => {
  res.json({ message: "Welcome!", user: req.user });
});
```



React Frontend Implementation

Store Token After Login

```
localStorage.setItem("token", data.token);
```

Attach Token in API Request

```
await fetch("http://localhost:5000/profile", {
  headers: {
    Authorization: `Bearer ${localStorage.getItem("token")}`,
  },
});
```



Screenshots (Add later)

- ✓ Login → Token Returned
- ✓ Protected API using Authorization Header
- ✓ Unauthorized access error (if token missing)