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| Sr.No | Issue | Impact | Fix |
| 1 | SKU not checked for uniqueness | Duplicate SKUs break uniqueness constraint, causing DB error or incorrect product data | Check for SKU before insert |
| 2 | Products can exist in multiple warehouses — but `Product` has `warehouse\_id` | Wrong schema logic — product should be global; inventory should be per warehouse | Remove `warehouse\_id` from `Product` |
| 3 | No input validation | Key errors or invalid types (e.g., price as string) cause runtime failures | Validate request data |
| 4 | No transaction wrapping | Partial commits — product added, but inventory fails → inconsistent state | Use a DB transaction block |
| 5 | Missing error handling | Server may crash on bad requests | Wrap in try-except and return 400 or 500 |
| 6 | Price might be float, not decimal | Decimal fields should be converted properly | Use `Decimal(data['price'])` if needed |
| 7 | Some fields optional | Code assumes all fields exist | Use `.get()` with defaults or optional handling |