Error Code	Description	Possible Solution
1016	Missing optional field: The optional field "phone_number" is missing in the request body.	1. Review the API documentation to understand optional fields. 2. Update the client application to include the phone number if needed. 3. Handle the missing optional field gracefully on the server-side.
1017	Invalid search parameter: The search parameter "color" requires a valid color value (e.g., "red", "#FF0000").	1. Validate search parameter values against expected formats. 2. Provide a user-friendly error message indicating the invalid search parameter value. 3. Offer suggestions for valid color formats.
1018	Pagination error: The requested page number (11) is beyond the available data.	1. Implement client-side validation for pagination requests. 2. Provide a user-friendly error message indicating the requested page doesn't exist. 3. Adjust the displayed page range based on available data.
1019	Permission denied: User lacks permission to perform the requested action (delete comment).	1. Verify user permissions for specific actions. 2. Implement authorization checks on the server-side. 3. Provide a user-friendly error message indicating insufficient permissions.
1020	Rate limit exceeded: The user has exceeded the allowed number of API requests per minute.	1. Implement rate limiting on the server-side. 2. Provide a user-friendly error message indicating the rate limit has been reached. 3. Consider introducing retry logic with backoff for future requests.
1021	Unsupported media type: The uploaded file format (".psd") is not supported by the system.	1. Validate supported file types on the server-side. 2. Provide a user-friendly error message indicating the unsupported file format. 3. List supported file types for user reference.
1022	External service error: The social media integration service returned an unexpected error.	1. Implement error handling for external service responses. 2. Log the specific error message from the external service. 3. Provide a general user-friendly error message indicating the integration issue.

1023	Data encryption error: An error occurred while encrypting sensitive user data.	1. Review encryption configuration and logs for specific errors. 2. Ensure proper functioning of encryption libraries. 3. Implement retry logic for encryption attempts.
1024	Decryption error: The provided data decryption key is invalid.	1. Verify the correct decryption key is used. 2. Check for typos or expired keys. 3. Provide a user-friendly error message indicating the invalid decryption key.
1025	Invalid sort parameter: The sort parameter "price" requires a valid direction (asc or desc).	1. Validate sort parameter format and direction. 2. Provide a user-friendly error message indicating the invalid sort parameter. 3. Offer examples of valid sort parameter usage.
1026	Internal server error: A bug was encountered in the server-side code (logic error).	1. Review server logs for detailed error messages and stack traces. 2. Fix the bug in the server-side code. 3. Deploy the application update with the bug fix.
1027	Dependency error: A required library or dependency is missing or incompatible.	1. Verify all dependencies are properly installed and compatible with the current environment. 2. Update or reinstall missing dependencies. 3. Provide a detailed error message indicating the missing or incompatible dependency.
1028	Cache miss: The requested data is not found in the cache.	1. Implement appropriate cache invalidation strategies. 2. Consider increasing the cache lifetime if applicable. 3. Fallback to fetching data from the original source (database).
1029	Cache invalidation error: An error occurred while invalidating cached data.	1. Review cache invalidation logic for errors. 2. Implement retry logic for cache invalidation attempts. 3. Log specific error messages for debugging purposes.
1030	Invalid JWT token: The provided JWT token is malformed or expired.	1. Verify the JWT token format and validity on the server-side. 2. Implement proper JWT token generation and validation logic. 3. Provide a user-friendly error message indicating the invalid JWT token.

1000	Internal Server Error: An unexpected error occurred on the server.	1. Check server logs for detailed error messages. 2. Restart the server application. 3. Contact system administrator if the issue persists.
1001	Missing Required Field: The field "username" is missing in the request body.	1. Review the API documentation to ensure all required fields are included. 2. Update the client application to include the missing username. 3. Provide a user-friendly error message indicating the missing field.
1002	Invalid Data Format: The date format for "birth_date" is incorrect (YYYY-MM-DD expected).	1. Validate the data format against the API documentation. 2. Correct the date format in the client application. 3. Provide a user-friendly error message indicating the specific date format issue.
1003	Authentication Failed: Invalid credentials provided.	1. Verify username and password are correct. 2. Check for typos or case sensitivity issues. 3. Reset password if necessary. 4. Provide a user-friendly error message indicating invalid credentials.
1004	Authorization Error: User is not authorized to access this resource (product details).	1. Verify user permissions for accessing product details. 2. Grant appropriate access if necessary. 3. Provide a user-friendly error message indicating insufficient permissions.
1005	Resource Not Found: The requested resource (user with ID 123) could not be found.	1. Verify the user ID is correct. 2. Check if the user has been deleted. 3. Provide a user-friendly error message indicating the resource was not found.
1006	Resource Conflict: A user with the same email address ("[email address removed]") already exists.	1. Modify the request to use a unique email address. 2. Implement conflict resolution logic on the server-side. 3. Provide a user-friendly error message indicating the resource conflict.
1007	Request Timeout: The request to upload a large file timed out.	1. Reduce the size of the file being uploaded. 2. Optimize the server-side processing for large files. 3. Increase the timeout limit (if applicable). 4. Provide a user-friendly error message indicating the request timed out.

1008	Database connection error: Unable to connect to the database.	1. Check database server status and connectivity. 2. Verify database credentials are correct. 3. Restart database service if necessary. 4. Implement retry logic for database connections.
1009	Data validation error: The email address ("invalid_email") does not meet the required format.	1. Implement robust data validation on the server-side. 2. Provide detailed error messages indicating specific validation failures. 3. Allow users to correct invalid data and resubmit the request.
1010	External service unavailable: The payment gateway service is currently unavailable.	1. Implement retry logic for calls to external services. 2. Consider alternative or fallback payment options. 3. Provide a user-friendly error message indicating the external service issue.
1011	Invalid API key: The provided API key ("invalid_key") is not valid.	1. Verify the correct API key is used in the request. 2. Check for typos or expired keys. 3. Provide a user-friendly error message indicating the invalid API key.
1012	Quota exceeded: The user has reached the maximum allowed number of active subscriptions.	1. Inform the user about the subscription limit. 2. Offer options for upgrading to a higher plan or canceling existing subscriptions. 3. Provide a user-friendly error message indicating the quota exceeded.
1013	File upload error: The uploaded file type (".exe") is not allowed.	1. Validate allowed file types on the server-side. 2. Provide a user-friendly error message indicating the invalid file type. 3. Allow users to select files with permitted extensions.
1014	Data integrity error: Inconsistency detected between user data and order details.	1. Implement data integrity checks on the server-side. 2. Fix data inconsistencies in the database. 3. Provide a detailed error message for debugging purposes.