



ChipLand

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Dec 28, 2022



Outline

1 Introduction

2 Database Design

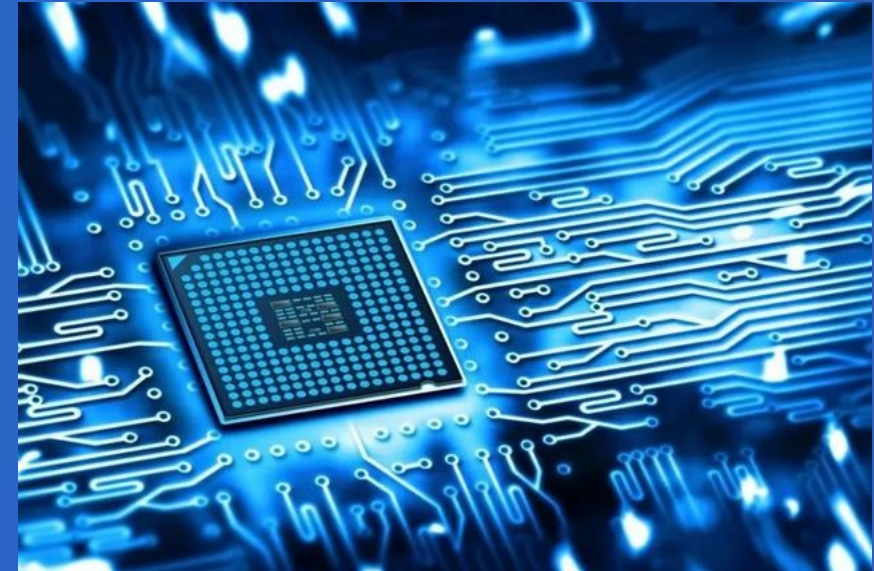
3 Implemented
Functions

4 Code Review



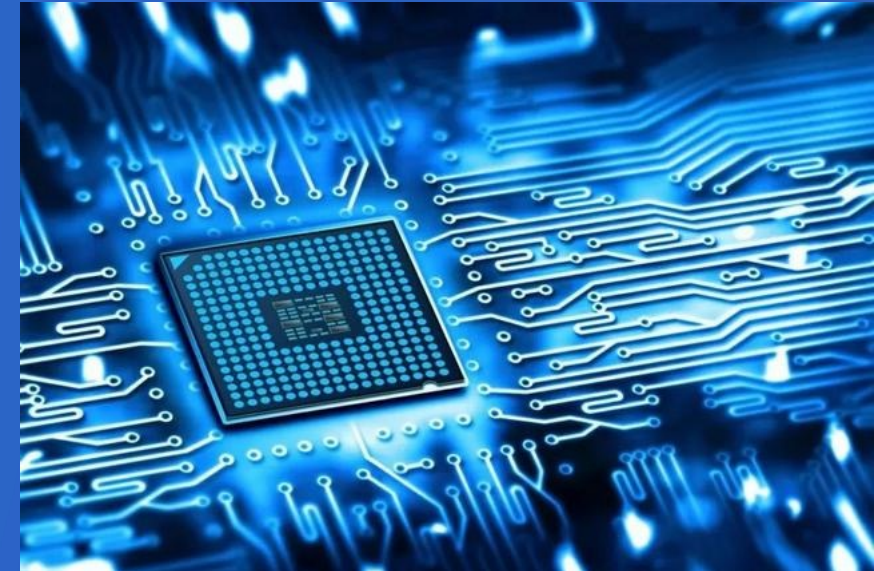
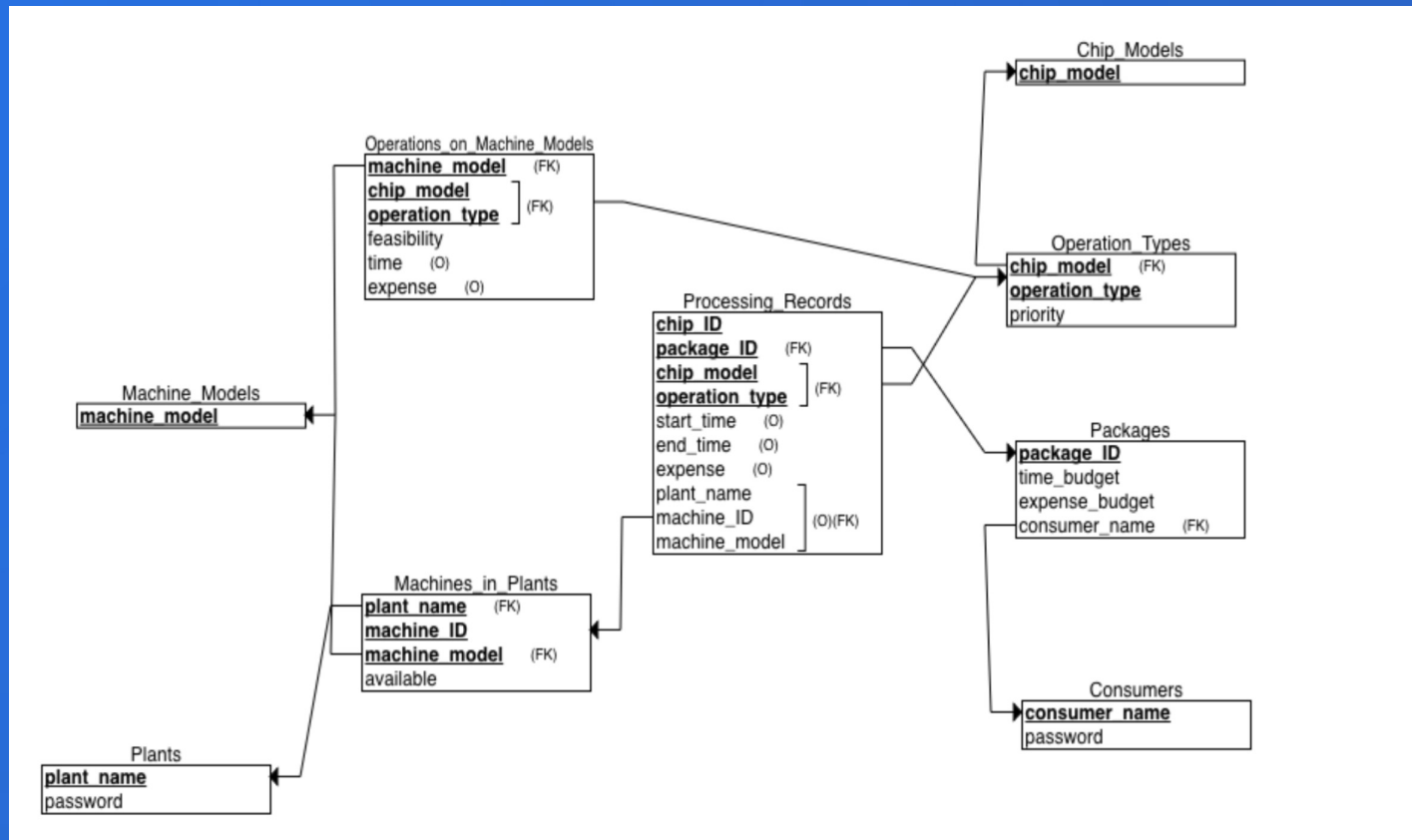
1 Introduction

- **Option 1, Branch 1, and Normal difficulty.**
- **Consumers can configure packages of chips and appoint plants.**
- **Plant owners can publish new machines and accept appointments.**
- **Plant information, processing records, and information in a responsive table or Gantt Chart.**



2 Database Design and Initialization

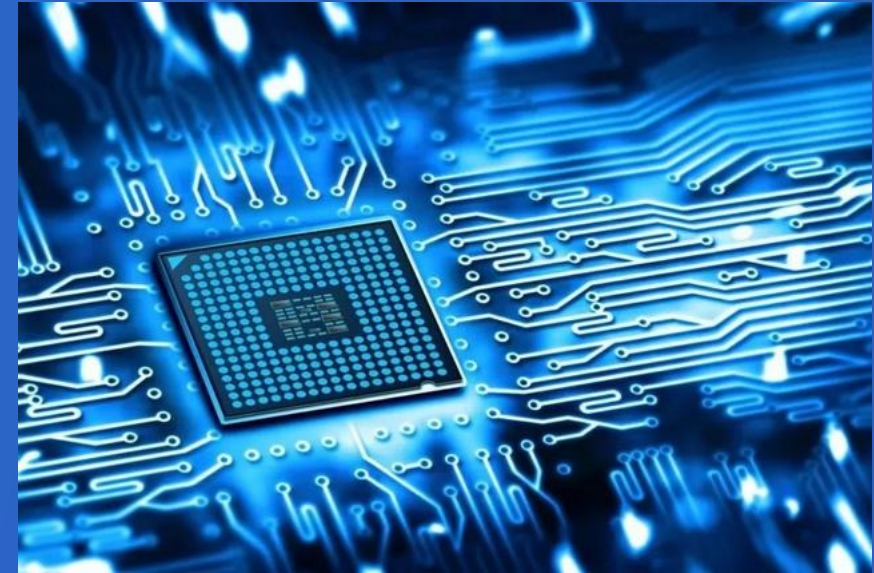
2.1 Normalization



2 Database Design and Initialization

2.2 Why No More Normalization: Expensive Joins

Since data is not duplicated, table joins are required. This makes queries more complicated, and thus read times are slower.

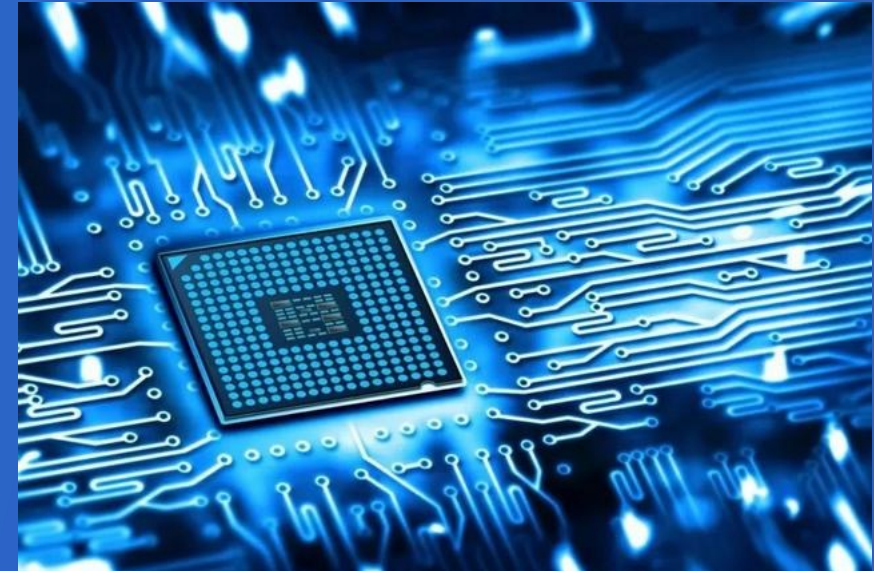


2 Database Design and Initialization

2.3 Why No Indexing: Affecting Writes

The downside to adding indexes to a table is that they affect the performance of writes.

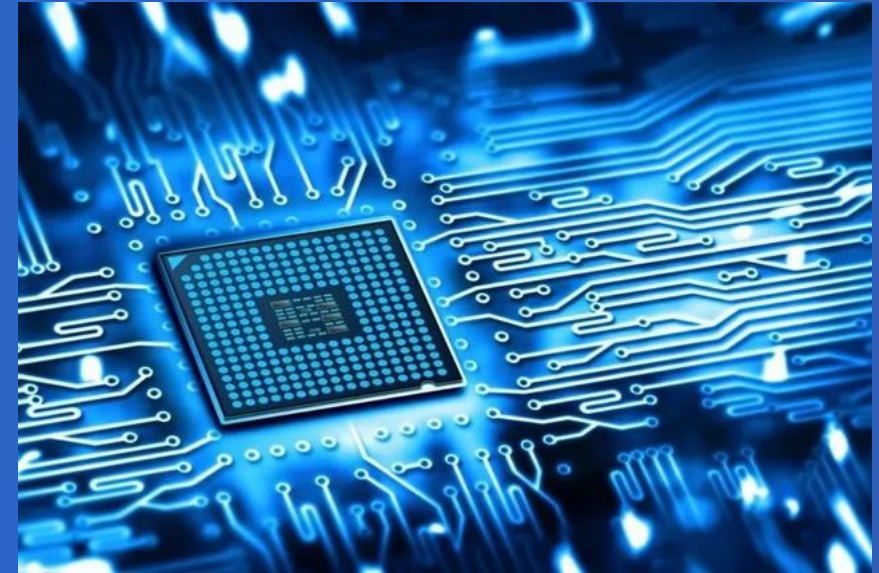
Moreover, improperly created indexes can even adversely affect SELECT queries.



2 Database Design and Initialization

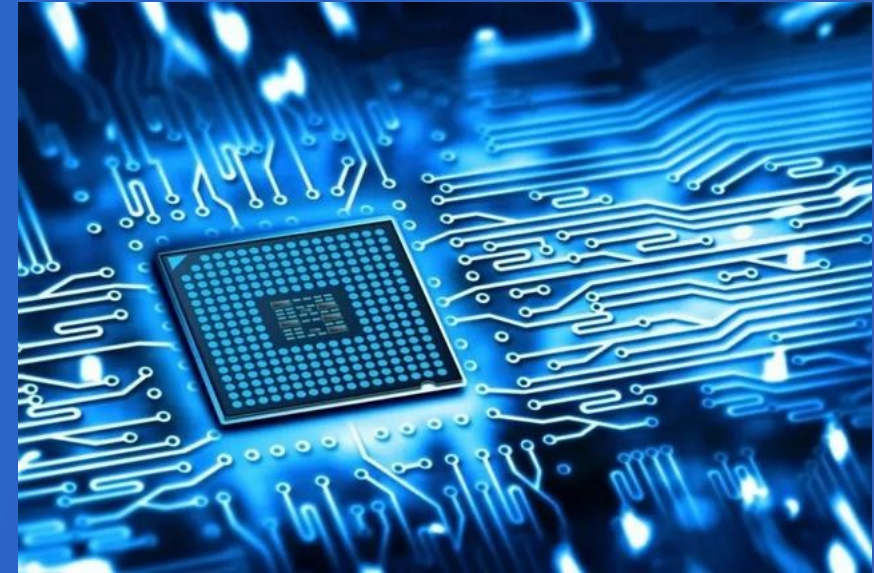
2.4 Database Initialization: Out of the Box!

When you use our website for the first time, the program will automatically create and populate a database in your computer, completely out of the box, which means you need to do nothing.



3 Implemented Functions

Website Demonstration

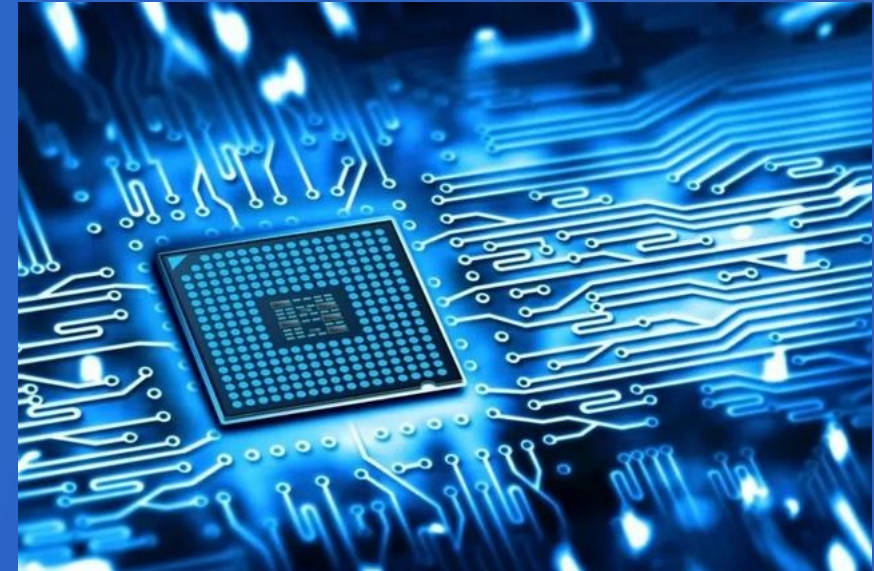


4 Code Review

4.1 File Classification

The PHP files:

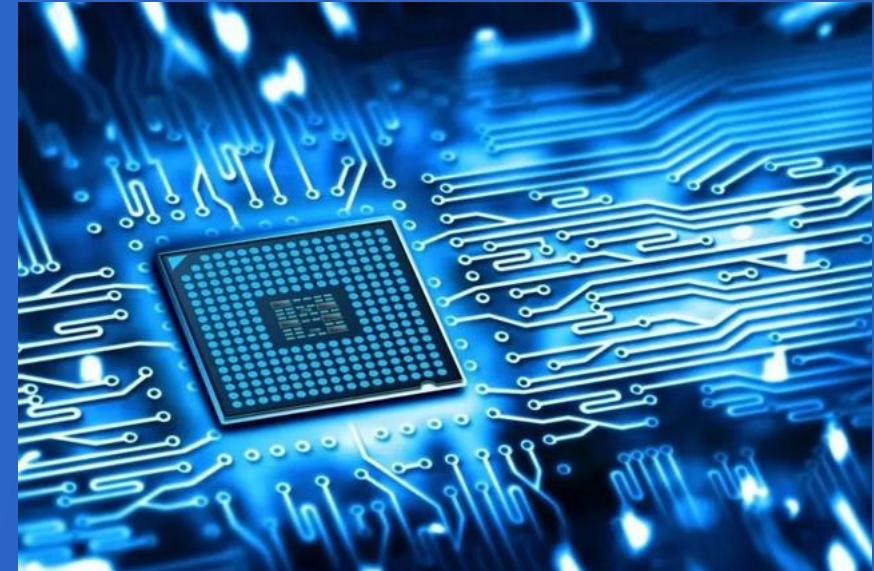
- **Webpage part (root directory):** PHP files here directly serve as webpages. Most of the code is backend.
- **Frontend part (frontend directory):** Those here don't directly serve as the webpages. Most of the code is frontend. They indirectly serve as webpages by being required by the PHP files in the root directory.



4 Code Review

4.2 Why Classifying in This Way

- **Making us quicker to know which files are in which directory.**
- **More importantly, distinguishing frontend and backend makes us easier to divide the work to each person and collaborate more efficiently.**

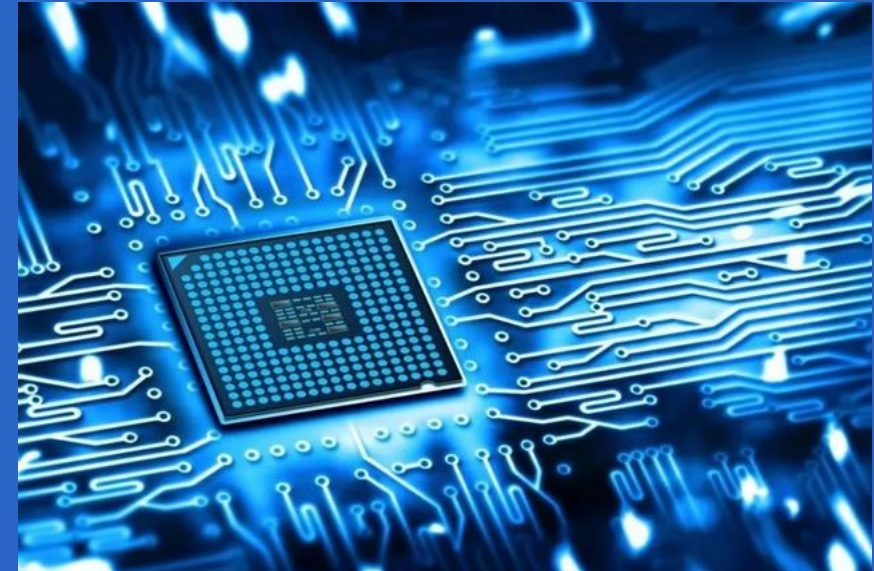


4 Code Review

4.3 The Whole Directory Structure

Other code like JavaScript and SQL is also necessary.

We have contained a more detailed code review, Implemented Functions and Directory Structure Explanation, in our repository.



Thank You!

