

tushr7

# Planning and Preparation

## Plan Project Structure

### Define Overall Architecture

- Utilize microservices architecture for scalability
- Implement a modular design for easy maintenance
- Use a robust database structure for data reliability
  - Backup redundancy
  - Backup redundancy
- Incorporate cloud services for seamless scalability
- Consider future integrations when designing the architecture

### Set Clear Goals



#### Modify

- Modify the way "Set Clear Goals" by involving team collaboration
- Adjust the frequency of reviewing the clear goals to enhance project adaptability

- Define specific project milestones
- Establish measurable key performance indicators (KPIs)
- Outline a detailed timeline for completion
- Identify target audience and their needs
- Allocate resources effectively

### Scalability Planning

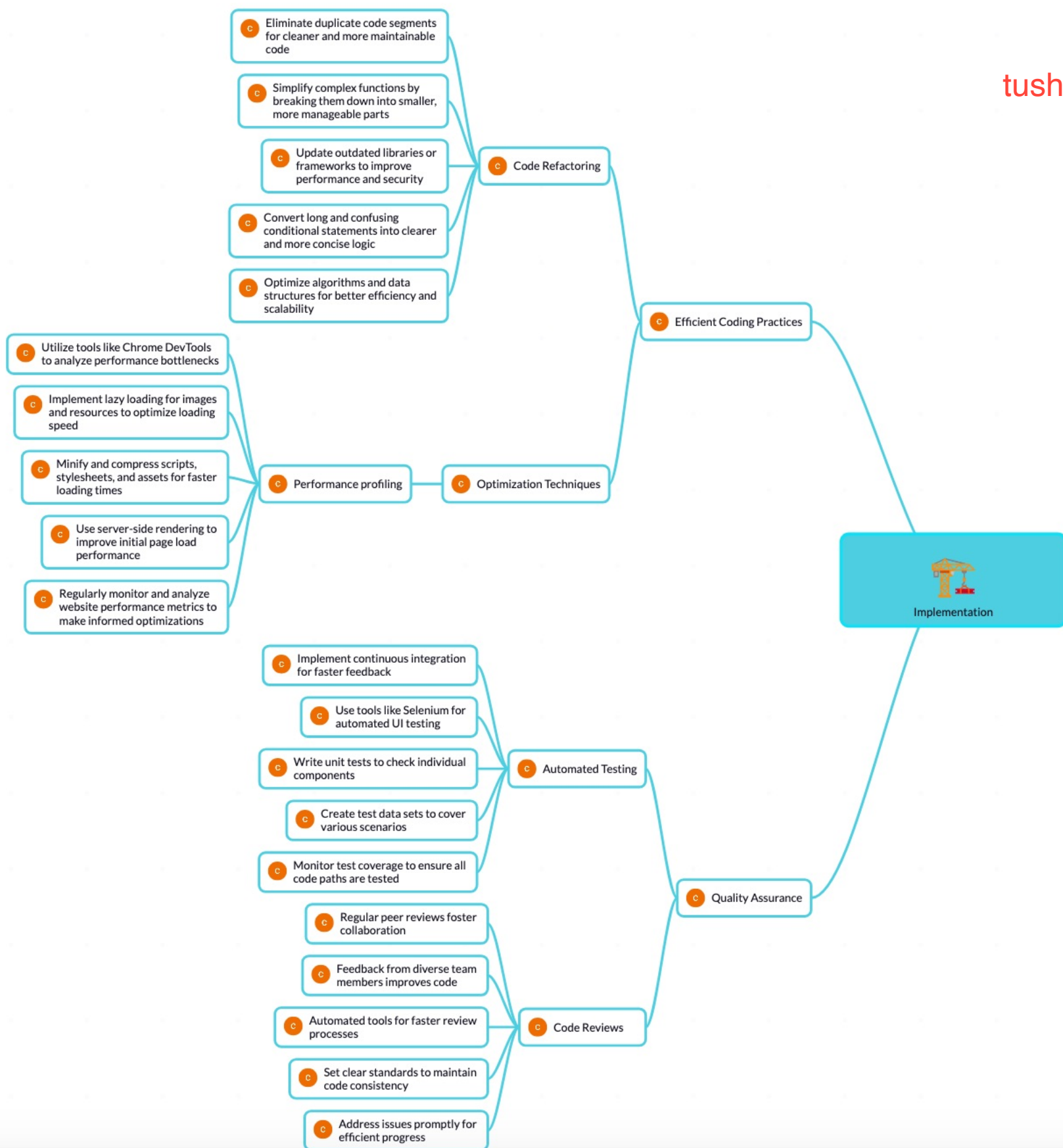
- Implement load balancing for distributing traffic efficiently
- Utilize scalable cloud infrastructure to handle growth seamlessly
- Monitor performance metrics for proactive scaling decisions
- Use microservices architecture to modularize and scale components
- Plan for automatic scaling based on defined criteria to handle spikes

## Prepare for Growth

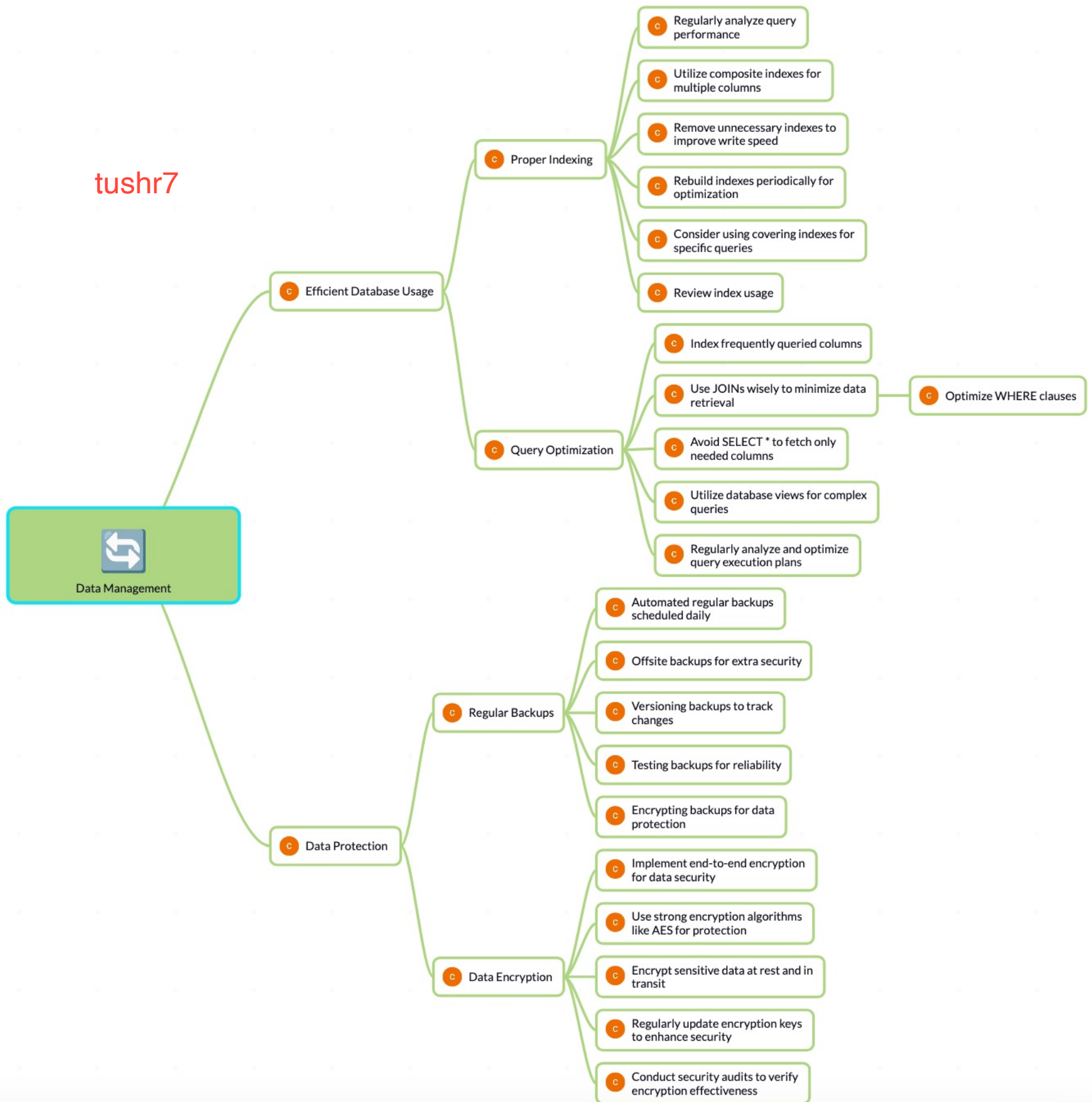
### Performance Optimization

- Implement lazy loading for faster initial page load times
- Use content delivery networks (CDNs) to reduce server load and speed up content delivery
- Minify and compress files like CSS and JavaScript to improve loading times
- Optimize images by reducing file sizes without compromising quality
- Utilize browser caching to store static content locally and speed up subsequent visits

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c Caching Techniques

c In-Memory Caching

c Content Delivery Network

c Performance Monitoring

c Real-time Metrics

c Logging and Analysis





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