```
// lib/access-control.ts
interface Document {
  user_id: string;
  permissions: {
   can_read: string[];
   can_write: string[];
   can_delete: string[];
   is_public: boolean;
  };
}
export const AccessControl = {
  canRead(document: Document, userId: string): boolean {
   return (
     document.user_id === userId ||
     document.permissions.can_read.includes(userId) ||
     document.permissions.is_public
   );
  },
  canWrite(document: Document, userId: string): boolean {
   return document.user_id === userId || document.permissions.can_write.includes(userId);
  },
  canDelete(document: Document, userId: string): boolean {
   return document.user_id === userId || document.permissions.can_delete.includes(userId);
```

};