**Create a Micro-Feasibility Analysis**

**Technical Feasibility – Can we build it?**

*Describe your Familiarity with Functional Area*: We’ve used apps like Nextdoor, Facebook Marketplace, Airbnb, and local tool libraries, so we get community-based sharing. To strengthen our know-how, we’ll:

* Interview HOA board members and early adopters
* Study case studies (NeighborGoods, Peerby)
* Run a small pilot in one neighborhood before full rollout

*Describe your Familiarity with Technology*:

* **Mobile App Development (iOS/Android):** Basic familiarity - **Medium Risk** - Plan: Online course + hands-on tutorial projects
* **Responsive Web Development:** Intermediate knowledge - **Low Risk** - Plan: Pair programming with experienced developer
* **SQL Database Management:** Limited experience - **High Risk** - Plan: Database workshop + find a mentor for complex queries
* **Payment Gateway Integration:** Minimal experience - **High Risk** - Plan: Practice with Stripe/PayPal sandbox environments
* **Geolocation APIs:** Basic understanding - **Medium Risk** - Plan: Study API documentation + build small prototype
* **Cloud Hosting Services:** Introductory knowledge - **Medium Risk** - Plan: Complete AWS/Azure beginner tutorials
* **Security & Authentication:** Limited experience - **High Risk** - Plan: Security bootcamp + code review sessions
* **Push Notification Systems:** Minimal experience - **Low Risk** - Plan: Test notification libraries and demos

*Project Size*:   
This is a medium-large project:

* 3–4 developers + 1 UI/UX specialist over 8–12 months
* Multiple user roles (lender, borrower, admin)
* Integration with payment, mapping, notification services
* Ongoing community support and bug fixes

*Compatibility*:

* Must hook into existing HOA databases and websites via APIs
* Comply with PCI DSS for payment processing
* Run on latest two versions of iOS and Android
* Sync user data without violating privacy rules
* Work with both email/SMS gateways and in-app notifications

**Economic Feasibility (Will it pay off?)**

**Development & Operating Costs**

* Initial build: $75K–$100K
* Yearly hosting & support: $15K–$20K
* Onboarding & marketing: $10K–$15K

**Benefits Analysis**

* Direct fees: $8K–$15K/year (500 active households)
* Community savings: $250K–$600K/year in avoided purchases
* Property value boost: 2–4% bump in home prices

**Break-Even**

At current rates, we’d recoup the upfront costs in about 18–24 months. After year 3, ROI should look really strong, especially as operations stabilize.

Organizational Feasibility: If you build it, will people use it?

*Strategic Alignment*:   
This project ties into key municipal goals:

* Sustainability by cutting waste
* Community Engagement through neighbor interaction
* Smart City initiatives that use tech to improve quality of life

*Stakeholder Analysis*: Consider the people who will benefit from this project and describe how/why the end result will be valuable to them. At a minimum, consider:

* Project Champion(s) -
  + Community Development Department (primary)—they track engagement metrics and need visible wins.
  + HOA Boards (secondary)—fewer disputes and happier homeowners reduce their workload.
* Senior Management –
  + Municipal leaders gain public-relations wins with minimal long-term staff input.
  + HOA firms can tout higher satisfaction scores to justify fees.
* Users –
  + *Lenders* get social kudos, a bit of extra income, and security through deposits.
  + *Borrowers* save money, avoid clutter, and enjoy local convenience.
  + *Occasional Users* benefit seasonally with almost zero commitment, plus a friendlier street.

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| --- | --- | --- | --- |
| **MGMT 1223 - Systems Development 1 - Assignment #3** | | | |
|  | **Team Member Names:** |  |  |
|  | 3 = Yes, 2 = Somewhat, 1 = Barely, 0 = No | Self | Prof |
|  | **Totals** |  |  |
| **Submission Logistics (Yes or No, each prompt is all or nothing)** |  |  |  |
|  | Was the rubric submitted with partner names and self-assessment completed? | 3 |  |
|  | Was this report included as an addition to the preceding system request? | 3 |  |
|  | Was the assigned feasbility analysis template used? | 3 |  |
|  | Do the combined elements cohesively describe the project? | 3 |  |
|  | Was the system request updated in response to professor feedback (if necessary)? | 3 |  |
|  |  |  |  |
| **Feasibility Analysis** | |  |  |
| **Technical Feasibility - Familiarity with (Business) Functional Area** |  | 3 |  |
|  | Does this section describe explicitly how familiar the authors are, or or not, with the business functional area of the project? | 3 |  |
|  | Is the language and formatting used clear and concise? | 3 |  |
|  | Does the section provide a brief but meaningful rationale for how the authors will attain the necessary skillset to improve familiarity with the business area beyond their personal experience? | 3 |  |
|  |  |  |  |
| **Technical Feasibility - Familiarity with Technology** |  |  |  |
|  | Does this section describe explicitly how familiar the authors are, or or not, with the technical knowledge necessary for the project? | 3 |  |
|  | Is the language and formatting used clear and concise? | 3 |  |
|  | Does the section provide a brief but meaningful rationale for how the authors will attain the necessary skillset to improve familiarity with the required technology? | 3 |  |
|  |  |  |  |
| **Technical Feasibility - Compatibility** |  |  |  |
|  | Does the section account for compatibility concerns focused on the existing infrastructure as well as the kinds of devices users will need in order to access this system? | 3 |  |
|  | Is the language and formatting used clear and concise? | 3 |  |
|  |  |  |  |
| **Organizational Feasibility - Strategic Alignment** |  |  |  |
|  | Does the section effectively describe how the proposed project aligns with the strategic goals of the organization? | 3 |  |
|  |  |  |  |
| **Organizational Feasibility - Stakeholders** |  |  |  |
|  | Does the submission accurately describe the project champion and why they have a vested interested in seeing this project be successful? | 3 |  |
|  | Does the submission accurately describe why senior management would want to suppor this project?? | 3 |  |
|  | Does the submission accurately describe in detail why the intended end-users will accept this new system? | 3 |  |