Healthcare Patient Flow & Appointment Manager Automate patient scheduling using AI to predict appointment slots and reduce wait times. Provide a unified platform for patient registration, insurance verification, and reminders to streamline hospital admin processes.

Startup idea name is: ****Healthcare Patient Flow & Appointment Manager** Automate patient scheduling using Al to predict appointment slots and reduce wait times. Provide a unified platform for patient registration, insurance verification, and reminders to streamline hospital admin processes.**

Description: ****

Market Segmentation

Based on your startup idea, **Healthcare Patient Flow & Appointment Manager**, here are the five most appropriate market segments:

- 1. Hospitals
- 2. Private Clinics
- 3. Urgent Care Centers
- 4. Telehealth Providers
- 5. Health Insurance Companies

Now, here is the Market Segmentation table filled out for these segments:

| # | Title/Descriptions | Hospitals | Private Clinics | Urgent Care Centers | Telehealth Providers | Health Insurance Companies |
|----|---|-------------------------------|-------------------------------|-------------------------------------|--|---|
| 1 | End User | Hospital Administrators | Clinic Managers | Urgent Care Directors | Telehealth Coordinators | Insurance Claims Managers |
| 2 | Task | Schedule patient appointments | Manage patient flow | Handle walk- in patients | Coordinate virtual visits | Process claims and reimbursements |
| 3 | Benefit | Reduced wait times | Improved patient satisfaction | Increased patient throughput | Enhanced accessibility | Cost savings and efficiency |
| 4 | Urgency of Need | High | Medium | High | Medium | High |
| 5 | Example End Users | Hospital Admins | Family Practice Doctors | Urgent Care Physicians | Telehealth Providers | Insurance Executives |
| 6 | Lead Customers | Large hospital networks | Popular local clinics | Well-known urgent care chains | Established telehealth platforms | Major insurance companies |
| 7 | Willingness to Change | Moderate | High | High | High | Moderate |
| 8 | Frequency of Buying | Annual/Quarterly | Monthly | Monthly | As needed | Quarterly |
| 9 | Concentration of Buyers | Many buyers | Many buyers | Many buyers | Many buyers | Few large companies |
| 10 | Other Relevant Market Considerations | Regulatory compliance | Patient demographics | Location accessibility | Technology adoption | Policy changes |

| 11 | Size of Market (# of end users) | 6,000+ hospitals | 100,000+ clinics | 10,000+ centers | 50,000+ providers | 1,000+ companies |
|----|--|------------------------------------|--------------------------------|---------------------------------|----------------------------------|---------------------------------|
| 12 | Estimated Value of End User (\$1, \$10, \$100, \$1k) | \$1,000 | \$500 | \$300 | \$200 | \$1,000 |
| 13 | Competition / Alternatives | Existing scheduling software | Manual scheduling | Other appointment systems | Other telehealth platforms | Other insurance software |
| 14 | Other Components Needed for a Full Solution | Integration with EHR systems | Patient management tools | Staffing solutions | Video conferencing tools | Claims processing systems |
| 15 | Important Partners | EHR vendors | Local health networks | Staffing agencies | Tech companies | Healthcare providers |
| 16 | Other Relevant Personal Considerations | Existing relationships | Local market knowledge | Community engagement | Tech-savvy staff | Industry connections |

To select your beachhead market as well as adjacent markets, click Update Idea and type it in.

Beachhead market

Based on the startup idea "Healthcare Patient Flow & Appointment Manager," here are the potential market segments and the evaluation of each segment based on the criteria provided:

Potential Market Segments:

- 1. Large Urban Hospitals
- 2. Small to Medium-sized Clinics
- 3. Specialty Medical Centers (e.g., Oncology, Cardiology)
- 4. Telemedicine Providers
- 5. **Urgent Care Centers**

Evaluation Table:

| Criteria | Large Urban Hospitals | Small to Medium- sized Clinics | Specialty Medical Centers | Telemedicine Providers | Urgent Care Centers |
|---|--|--|--|--|--|
| Is the target customer well-funded? Very High: Large budgets and resources for technology investments. Medium: Limited budgets compared to large hospitals. | | Limited budgets compared to large | High : Often have specific funding for technology to improve patient outcomes. | High : Growing sector with increasing investment in technology. | Medium: Moderate funding, but focus on efficiency can drive investment. |
| Is the target customer readily accessible to your sales force? | Medium: Complex decision-making units and longer sales cycles. | High : Easier access and quicker decision-making processes. | Medium: Specialized needs may require tailored approaches. | High : Digital-first approach makes them more accessible. | High : Typically have straightforward decision-making processes. |
| Does the target customer have a compelling reason to buy? | High : Need to manage high patient volumes and reduce wait times. | High: Desire to improve patient satisfaction and operational efficiency. | Very High: Critical need to optimize patient flow for specialized treatments. | Very High: Essential to manage virtual appointments efficiently. | High : Need to streamline operations and reduce patient wait times. |
| Can you deliver a whole product? | High : Requires integration with existing systems | High : Easier to implement with fewer existing | Medium: May require customization for specific | Very High: Platform can be easily integrated into digital | High : Can be integrated with existing systems with moderate |

| | but feasible. | systems. | specialties. | workflows. | effort. |
|--|---|---|---|---|---|
| Is there entrenched competition that could block you? | High : Existing solutions and vendors are wellestablished. | Medium: Less competition, but some established players exist. | Medium: Niche solutions may exist, but less competition overall. | Medium: Emerging market with growing competition but still open opportunities. | Medium : Some competition, but opportunities for differentiation exist. |
| If you win this segment, can you leverage it to enter additional segments? | Very High: Success here can lead to expansion into other hospital departments. | High : Can expand to other clinics and healthcare providers. | High : Success can lead to entry into other specialty centers. | High : Can expand to other digital health services. | Medium: Limited expansion potential but can lead to other urgent care centers. |
| Is the market consistent with the values, passions, and goals of your founding team? | High : Aligns with goals to improve healthcare efficiency and patient care. | High : Aligns with goals to support smaller healthcare providers. | High : Aligns with goals to enhance specialized medical care. | Very High: Aligns with digital innovation and improving access to care. | High : Aligns with goals to improve urgent care efficiency and patient outcomes. |

Overall Rating and Ranking:

1. Large Urban Hospitals: High

Small to Medium-sized Clinics: High
 Specialty Medical Centers: High
 Telemedicine Providers: Very High
 Urgent Care Centers: Medium

Key Deciding Factors:

- **Telemedicine Providers** are rated the highest due to their digital-first approach, growing investment, and alignment with the startup's goals.
- Large Urban Hospitals and Specialty Medical Centers offer significant opportunities due to their size and need for efficiency but face more competition.
- Small to Medium-sized Clinics and Urgent Care Centers provide accessible entry points with moderate competition and funding.

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End user profile

End User Profile

The end users of the Healthcare Patient Flow & Appointment Manager are primarily patients who seek medical appointments. They are likely to be individuals who value their time and are frustrated by long wait times and complicated scheduling processes. These users may range from young adults to seniors, encompassing a diverse demographic in terms of age, gender, and health conditions. They are tech-savvy and prefer using digital solutions for managing their healthcare needs. Their primary motivation is to receive timely medical attention while minimizing the hassle associated with scheduling appointments.

| Category | Details |
|----------------|--|
| Demographics | Age: 18-65+, Gender: All, Income: Varies, Geography: Urban/Suburban, Education: Varies |
| Psychographics | Values convenience, seeks efficiency, tech-savvy, health-conscious, prefers digital solutions |
| Proxy Products | Health apps (e.g., MyChart), online appointment schedulers, telehealth services |
| Watering Holes | Online health forums, social media groups, healthcare provider websites, community health events |

| Day in the Life | Patients often juggle work, family, and health appointments, seeking efficient ways to manage their time. They may spend time researching healthcare options online and prefer quick access to appointment scheduling. |
|-----------------|--|
| Priorities | 1. Timely access to healthcare (40%) 2. Ease of scheduling (30%) 3. Quality of care (20%) 4. Cost of services (10%) |

Economic Buyer Profile

The economic buyers for the Healthcare Patient Flow & Appointment Manager are healthcare administrators and hospital management teams. They are responsible for improving operational efficiency and patient satisfaction within their facilities. These buyers are typically focused on reducing costs and enhancing the patient experience through technology. They are likely to be decision-makers in hospitals or clinics, with a strong interest in solutions that streamline administrative processes. Their primary motivation is to implement systems that improve patient flow and reduce wait times, ultimately leading to better patient outcomes and increased revenue.

| Category | Details |
|-----------------|--|
| Demographics | Age: 30-60, Gender: All, Income: Varies, Geography: Urban/Suburban, Education: Healthcare Management or related fields |
| Psychographics | Values efficiency, focused on cost reduction, interested in technology, prioritizes patient satisfaction |
| Proxy Products | Hospital management software, patient management systems, electronic health records (EHR) |
| Watering Holes | Healthcare conferences, industry webinars, professional associations, LinkedIn groups |
| Day in the Life | Administrators manage daily operations, analyze patient flow data, and seek solutions to improve efficiency and patient satisfaction. They often attend meetings and conferences to stay updated on industry trends. |
| Priorities | 1. Operational efficiency (40%) 2. Patient satisfaction (30%) 3. Cost management (20%) 4. Compliance with regulations (10%) |

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Beachhead TAM size

Top-Down Estimate of Number of End Users in Beachhead Market

| Category | Description | Entry | How did you end up at this number/range? |
|------------------------------------|---------------------------------------|---------|--|
| 1st segmentation based on | Healthcare facilities in the U.S. | 6,000 | Based on the number of hospitals and clinics in the U.S. |
| 2nd segmentation based on | Average patients per facility | 100 | Average number of patients per day per facility. |
| 3rd segmentation based on end user | Patients using appointment management | 50% | Estimated percentage of patients using digital appointment management. |
| End users in beachhead market | | 300,000 | Calculation: 6,000 facilities * 100 patients * 50% |

Assumption(s) for calculation: The healthcare facilities are primarily hospitals and outpatient clinics that would benefit from the solution.

Source(s): American Hospital Association, industry reports.

Top-Down TAM Analysis Summary

| Description | User Entry | Explanation | |
|--|--------------|---|--|
| 1. Total # of end users in the broad market segment | 300,000 | Based on the previous table. | |
| 2. Total # of end users in the targeted sub-segment your BHM | 150,000 | Targeting urban hospitals and clinics. | |
| 3. Annual monetizable revenue per end user | \$200 | Estimated based on subscription model for software. | |
| 4. Estimate of Top-Down TAM (line 2 times line 3) | \$30,000,000 | Calculation: 150,000 users * \$200. | |
| 5. Estimate of Range of Profitability for Your Product | 70-90% | Software typically has high margins. | |
| 6. Estimated CAGR (Compound Annual Growth Rate) | 15% | Based on market growth trends in healthcare tech. | |

Advanced Topics: Bottom-Up TAM Analysis Worksheet

| Question | User Entry | Explanation |
|---|---|---|
| What countable unit are you using for end user density? | Patients per facility | Focus on patient interactions. |
| Instance 1 | 100 | Average patients per day. |
| Instance 2 | 150 | Larger facilities may have more. |
| Instance 3 | 50 | Smaller clinics may have fewer. |
| Who did you speak to in order to gather this info? | Industry experts, healthcare reports | Consulted various sources for accuracy. |
| # of end users | 300,000 | As calculated above. |
| # of people in the countable unit | 1,000,000 | Estimated total patient visits across facilities. |
| Density ratio (# end users / # people in countable unit) | 30% | Based on usage estimates. |
| How representative of the whole market do you believe this instance is? | 70% | Based on industry averages. |
| In this instance, what is your estimate of the annualized revenue per end user? | \$200 | As previously calculated. |

Based on the above table, what is a reasonable estimate of:

• End user density: **30**%

Annualized revenue per end user: \$200Number of end users in the market: 300,000

• TAM: \$30,000,000

Four additional factors to consider:

| Factor | Estimate | Based on | Explanation |
|---|----------|--------------------------|--------------------------------------|
| Estimate of Range of Profitability for Your Product | 70-90% | Industry standards | Software typically has high margins. |
| Estimated CAGR (Compound Annual Growth Rate) | 15% | Market research | Growth in healthcare tech. |
| Estimated Time to Achieve 20% Market Share | 2 years | Market entry strategy | Based on competitive landscape. |

| Anticipated Market Share Achieved if You are Reasonably Successful | 20% | Market penetration strategy | Realistic target based on competition. |
|---|-----|-----------------------------|--|

Analysis Questions

- 1. Comparing your top-down and bottom-up analyses, which do you believe has more credibility? Why?
 - The bottom-up analysis has more credibility as it is based on direct interactions and specific data points from the market.
- 2. If you blend the two estimations, what is your final TAM size? What factors would make the TAM lower than you calculated? What are the factors that would drive the TAM much higher?
 - Final TAM size: **\$30,000,000**. Factors that could lower the TAM include increased competition and slower adoption rates. Factors that could drive the TAM higher include expanding into adjacent markets and increasing the number of services offered.

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Would you like to change something?

Persona

End User Profile Summary

The end user for the Healthcare Patient Flow & Appointment Manager is a hospital administrator responsible for managing patient scheduling and hospital operations. They are typically in their mid-30s to mid-50s, with a background in healthcare management or administration, and are focused on improving patient experience and operational efficiency. This user is motivated by the need to reduce patient wait times and streamline administrative processes, often feeling overwhelmed by the complexities of scheduling and insurance verification. They value technology solutions that can automate tasks and provide real-time data insights. Their primary goal is to enhance patient satisfaction while maintaining budgetary constraints.

End User Profile Table

| Details |
|--|
| |
| Female |
| 40 |
| \$80,000 - \$120,000 |
| Master's Degree |
| MBA in Healthcare Management, Certified Healthcare Administrator (CHA) |
| 10+ years in hospital administration, previous roles include Operations Manager at XYZ Hospital |
| Married |
| 2 children, ages 10 and 12 |
| Caucasian |
| |

| Political Affiliations | Moderate |
|--|--|
| Psychographics | |
| Why do they do this job or live the life they do | Passionate about improving healthcare delivery and patient outcomes. |
| Hobbies | Reading, hiking, volunteering at local health clinics |
| Heroes | Florence Nightingale, local community health leaders |
| Aspirations in life | To lead a healthcare organization that sets benchmarks for patient care and satisfaction |
| Fears in life | Failing to meet patient needs, budget overruns, and negative feedback from patients |
| Personality Traits | Detail-oriented, empathetic, proactive, and resilient |
| Interesting habits | Regularly attends healthcare conferences, enjoys networking with peers in the industry |
| Proxy Products | |
| Is there a product or products that the Persona needs to have in order to get benefit from yours? | Electronic Health Record (EHR) systems, patient management software. |
| Are there products the Persona uses that embody the psychographics & demographics from the end user profile? | Scheduling software, patient feedback tools. |
| Any other unusual or interesting products of note that the Persona has? | Health analytics platforms, telehealth solutions. |
| Watering Holes | |
| Favorite sources for news | Healthcare journals, industry blogs, LinkedIn groups focused on healthcare management. |
| Places where they congregate with other similar people | Healthcare conferences, local hospital board meetings. |
| Associations they belong to and the importance of each | American College of Healthcare Executives (ACHE) - networking and professional development. |
| Where does the Persona go for expert advice and/or to get questions answered? | Online forums, professional networks, and mentorship programs. |
| Day in the Life | |
| What are the typical tasks the Persona does each day with the amount of time associated with each? | 8:00 AM - Review patient schedules (1 hour), 9:00 AM - Staff meetings (1 hour), 10:00 AM - Address patient complaints (2 hours), 12:00 PM - Lunch (1 hour), 1:00 PM - Analyze operational data (2 hours), 3:00 PM - Meet with IT for system updates (1 hour), 4:00 PM - Plan for upcoming health initiatives (1 hour). |
| Which of these typical tasks are habits? | Reviewing schedules and addressing complaints. |
| Which require the most effort? | Analyzing operational data and meeting with IT. |
| Which does the Persona enjoy? | Planning health initiatives and improving patient care. |
| Which does the Persona not enjoy? | Addressing complaints and budget management. |
| What makes it a good day for the Persona? | Positive patient feedback and successful implementation of new processes. |

| What makes it a bad day? | High patient wait times and unresolved complaints. |
|--|---|
| Who is the Persona trying to please the most? | Patients and hospital board members. |
| What is the top priority of the person/people the Persona is trying to please? | Ensuring patient satisfaction and operational efficiency. |
| Priorities | |
| 1. | Reducing patient wait times (40%) |
| 2. | Improving patient satisfaction (30%) |
| 3. | Staying within budget (20%) |
| 4. | Streamlining administrative processes (10%) |

Economic Buyer Profile Summary

The economic buyer for the Healthcare Patient Flow & Appointment Manager is typically a Chief Financial Officer (CFO) or a Chief Operations Officer (COO) in a healthcare organization. They are responsible for budget allocation and financial decision-making, ensuring that investments in technology yield a positive return. This buyer is often in their 40s to 60s, with extensive experience in healthcare finance and operations. They prioritize cost-effectiveness and efficiency in any new technology adoption, seeking solutions that can demonstrate clear financial benefits. Their ultimate goal is to enhance the overall financial health of the organization while improving patient care.

Economic Buyer Profile Table

| Category | Details |
|--|---|
| Demographics | |
| Gender | Male |
| Age | 50 |
| Income | \$150,000 - \$250,000 |
| Education level | Master's Degree |
| Education specifics | MBA in Finance, Certified Healthcare Financial Professional (CHFP) |
| Employment History | 15+ years in healthcare finance, previous roles include Finance Director at ABC Health System |
| Marital Status | Married |
| Kids & other family info | 3 children, ages 15, 18, and 22 |
| Ethnicity | Hispanic |
| Political Affiliations | Conservative |
| Psychographics | |
| Why do they do this job or live the life they do | Driven by the challenge of balancing financial sustainability with quality care. |
| Hobbies | Golf, traveling, attending financial seminars |
| Heroes | Warren Buffett, successful healthcare executives |

| Aspirations in life | To lead a financially sound healthcare organization that sets industry standards. |
|--|--|
| Fears in life | Financial mismanagement, budget cuts, and negative impacts on patient care. |
| Personality Traits | Analytical, strategic, results-oriented, and pragmatic |
| Interesting habits | Regularly reviews financial reports and market trends, enjoys mentoring young professionals. |
| Proxy Products | |
| Is there a product or products that the Persona needs to have in order to get benefit from yours? | Financial management software, budgeting tools. |
| Are there products the Persona uses that embody the psychographics & demographics from the end user profile? | Cost analysis tools, performance dashboards. |
| Any other unusual or interesting products of note that the Persona has? | Investment analysis software, healthcare benchmarking tools. |
| Watering Holes | |
| Favorite sources for news | Financial Times, Healthcare Financial Management Association (HFMA) publications. |
| Places where they congregate with other similar people | Financial conferences, healthcare finance workshops. |
| Associations they belong to and the importance of each | HFMA - networking and staying updated on industry standards. |
| Where does the Persona go for expert advice and/or to get questions answered? | Financial advisory services, peer networks. |
| Day in the Life | |
| What are the typical tasks the Persona does each day with the amount of time associated with each? | 8:00 AM - Review financial reports (1 hour), 9:00 AM - Budget meetings (2 hours), 11:00 AM - Strategy sessions (2 hours), 1:00 PM - Lunch (1 hour), 2:00 PM - Analyze costsaving opportunities (2 hours), 4:00 PM - Meet with department heads (1 hour). |
| Which of these typical tasks are habits? | Reviewing financial reports and budget meetings. |
| Which require the most effort? | Analyzing cost-saving opportunities and strategy sessions. |
| Which does the Persona enjoy? | Strategy sessions and identifying growth opportunities. |
| Which does the Persona not enjoy? | Budget meetings and financial audits. |
| What makes it a good day for the Persona? | Achieving budget goals and successful financial planning. |
| What makes it a bad day? | Budget overruns and financial discrepancies. |
| Who is the Persona trying to please the most? | Hospital board and stakeholders. |
| What is the top priority of the person/people the Persona is trying to please? | Ensuring financial stability and growth. |
| Priorities | |
| | Cost-effectiveness (50%) |

| 2. | Financial sustainability (30%) |
|----|--|
| 3. | Compliance with regulations (15%) |
| 4. | Enhancing patient care through financial investment (5%) |

You can Copy, Edit, and Save the results for this Step below. If you wish to update your Startup Idea, go to MIT Orbit (https://orbit.mit.edu/disciplined-entrepreneurship) and add critical information, including your Beachhead Market, and your User Profile and Persona Summaries.

Life cycle use case

The Healthcare Patient Flow & Appointment Manager aims to revolutionize the patient scheduling process by leveraging AI to predict appointment slots and minimize wait times. The platform will serve as a comprehensive solution for patient registration, insurance verification, and appointment reminders, ultimately streamlining hospital administrative processes. The persona for this startup is likely a hospital administrator or practice manager who is overwhelmed by the inefficiencies of current scheduling systems, leading to patient dissatisfaction and operational bottlenecks. This persona experiences frustration with long wait times, manual scheduling errors, and the cumbersome process of verifying patient information. They may initially seek solutions after receiving negative feedback from patients or noticing a decline in patient retention rates. The opportunity for improvement lies in enhancing the user experience by providing a more intuitive interface, integrating seamlessly with existing hospital systems, and offering robust analytics to help administrators make data-driven decisions.

| Who is involved | When | Where | How |
|----------------------------|---------------------------------------|------------------------------------|---|
| Hospital administrators | When patient flow issues arise | Hospitals or clinics | They recognize the need for a more efficient scheduling system after receiving patient complaints or observing long wait times. |
| Hospital administrators | During research phase | Online, industry conferences | They explore options through online research, peer recommendations, and industry publications. |
| Hospital administrators | After identifying potential solutions | Online, vendor meetings | They analyze options by comparing features, pricing, and user reviews, often through demos or trials. |
| Hospital administrators | Upon deciding to implement a solution | Hospitals or clinics | They acquire the product through direct purchase or subscription models, often involving procurement processes. |
| Hospital administrators | At the point of purchase | Online or in- person | They pay for the product using institutional purchasing methods, such as credit cards or purchase orders. |
| IT staff | During implementation phase | Hospitals or clinics | They install or set up the product, often requiring integration with existing systems and training for staff. |
| Hospital staff | During daily operations | Hospitals or clinics | They use the product to manage patient appointments, verify insurance, and send reminders, improving workflow efficiency. |
| Hospital administrators | After using the product | Hospitals or clinics | They determine value through metrics such as reduced wait times, increased patient satisfaction, and improved staff productivity. |
| Hospital administrators | When considering additional purchases | Hospitals or clinics | They buy more of the product based on positive outcomes and recommendations from staff and patients. |
| Hospital staff | During interactions with patients | Hospitals or clinics | They tell others about the product through word-of-mouth, sharing positive experiences with colleagues and patients. |

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High-level specs

| Persona's Priority 1 | Persona's Priority 2 | Persona's Priority 3 | |
|---|--|--|--|
| Delivering value : By automating patient scheduling with Al, we will significantly reduce wait times and improve patient satisfaction. | Delivering value : Streamlining hospital admin processes will enhance operational efficiency and reduce administrative burdens. | Delivering value : Providing a unified platform for patient registration and insurance verification will simplify the patient experience. | |
| Features : Al-driven scheduling, real- time appointment slot predictions, and automated reminders. | Features : Integrated patient registration, insurance verification, and reminders. | Features : User-friendly interface for patients and staff, mobile access, and data analytics for hospital management. | |
| Functions : Predictive analytics for scheduling, automated notifications, and a centralized dashboard for managing appointments. | Functions : Comprehensive patient management system, insurance verification tools, and reporting capabilities. | Functions : Easy-to-use mobile app for patients, online registration, and appointment management. | |
| Benefits : Reduced wait times lead to higher patient satisfaction and better resource allocation. | Benefits : Decreased administrative workload allows staff to focus on patient care, improving overall service quality. | Benefits : Enhanced patient experience through simplified processes, leading to increased patient retention and loyalty. | |

- 1. Company Name and Tagline: HealthFlow Solutions "Streamlining Patient Care, One Appointment at a Time."
- 2. Product Name and Tagline: PatientFlow Manager "Al-Powered Scheduling for a Seamless Experience."
- 3. **Benefits Aligned with Priority #1**: "Experience reduced wait times and improved satisfaction with our Aldriven scheduling."
- 4. **Two Additional Benefits**: "Simplify your hospital's admin processes" and "Enjoy a unified platform for registration and insurance verification."
- 5. **Magnitude of Benefit**: "Expect a 30% reduction in patient wait times and a 40% decrease in administrative workload, leading to a more efficient healthcare environment."
- 6. Call to Action: "Join us in revolutionizing patient care. Schedule a demo today!"

You can Copy, Edit, and Save the results for this Step below. If you wish to update your Startup Idea, go to https://orbit.mit.edu/disciplined-entrepreneurship and add critical information, including your Beachhead Market, User Profile Summary, Persona, and Priorities (1-3) for your Persona.

Quantify value proposition

Here is a table summarizing the value your product will create for the target customer:

| Question | Answer |
|--|--|
| What is the Persona's #1 priority? | Efficient patient scheduling and reduced wait times. |
| What units should it be measured in? | Minutes or hours of wait time reduced, percentage of appointment slots filled, and administrative hours saved. |
| General Verbal Description of the "As Is" State and the Opportunities for Improvement | Currently, patient scheduling is often manual, leading to inefficient use of appointment slots, long wait times, and administrative burdens. Opportunities exist to automate and optimize these processes. |
| General Verbal Description of the "Possible" State and the Opportunities for Improvement | With the Al-driven platform, hospitals can predict appointment slots more accurately, reduce patient wait times significantly, and streamline administrative tasks, leading to improved patient satisfaction and operational efficiency. |

You can Copy, Edit, and Save the results for this Step below. If you wish to update your Startup Idea, go to https://orbit.mit.edu/disciplined-entrepreneurship) and add critical information, including your Beachhead Market, User Profile Summary, Persona, and Priorities (1-3) for your Persona.

Next 10 customers

Here is the table summarizing potential customers for your startup idea, **Healthcare Patient Flow & Appointment Manager**:

| Customer Name | Relevant Info | Title | Demo- graphic | Psycho- graphic | Use Case | Value Prop | Overall |
|------------------|------------------|---------------------------------|--------------------|--|--|--|---------|
| 1 | Hospital A | Director of Operations | 40-55, Urban | Efficiency- driven, Tech- savvy | Automating patient scheduling | Reduced wait times, streamlined processes | High |
| 2 | Clinic B | Practice Manager | 30-50, Suburban | Cost- conscious, Patient- focused | Patient registration and insurance verification | Improved patient experience, lower admin costs | High |
| 3 | Hospital C | IT Manager | 35-50, Urban | Innovation- oriented, Data-driven | Al-driven appointment predictions | Enhanced scheduling accuracy, reduced no- shows | Medium |
| 4 | Clinic D | Office Administrator | 25-45, Rural | Detail- oriented, Service- minded | Reminders and follow-ups | Increased patient retention, better communication | High |
| 5 | Hospital E | Chief Financial Officer | 45-60, Urban | Budget- focused, Strategic | Financial oversight of patient flow | Cost savings through efficiency | Medium |
| 6 | Clinic F | Healthcare Consultant | 30-55, Various | Analytical, Solution- seeker | Streamlining admin processes | Comprehensive platform for patient management | High |
| 7 | Hospital G | Operations Analyst | 28-45, Urban | Process- oriented, Results- driven | Data analysis for patient flow | Insights for operational improvements | Medium |
| 8 | Clinic H | Patient Care Coordinator | 30-50, Suburban | Empathetic, Patient- centric | Managing patient appointments | Enhanced patient satisfaction, reduced wait times | High |
| 9 | Hospital I | Quality Assurance Officer | 35-55, Urban | Compliance- focused, Detail- oriented | Monitoring patient flow metrics | Improved quality of care, compliance with standards | Medium |
| 10 | Clinic J | Marketing Director | 30-50, Urban | Growth- oriented, Community- focused | Promoting efficient patient services | Increased patient acquisition through better service | High |

You can Copy, Edit, and Save the results for this Step below. If you wish to update your Startup Idea, go to https://orbit.mit.edu/disciplined-entrepreneurship) and add critical information, including your Beachhead Market, User Profile Summary, Persona, and Priorities (1-3) for your Persona.

Define core

Here are the answers to your questions regarding your startup idea, **Healthcare Patient Flow & Appointment Manager**:

| Que | stion | Answer |
|-------------|------------------|--|
| Wha valu | at is your le | Automate patient scheduling using Al to predict appointment slots and reduce wait times, while providing a unified platform for patient registration, insurance verification, and reminders to streamline hospital |

| what assets does your team have? Scheduling. <b< th=""><th>administrative processes.</th></b<> | | administrative processes. |
|--|----------------|---|
| | | 1. Al Technology Expertise: Strong knowledge in Al and machine learning to develop predictive algorithms for scheduling. scheduling. 2. Healthcare Industry Knowledge: Understanding of hospital operations and patient flow management. 3. Software Development Skills: Ability to build and maintain a user-friendly platform. 4. Network in Healthcare: Connections with healthcare providers for potential partnerships. 5. Data Privacy Compliance Knowledge: Understanding of regulations like HIPAA to ensure user data protection. |
| What your propo moats your busin | osed s for | 1. Proprietary AI Algorithms : Unique algorithms that improve scheduling efficiency over competitors. 2. User Data Accumulation : Building a large dataset over time to enhance AI predictions and provide personalized services. |
| What poten Cores your busin | ntial s for | 1. Al-Driven Scheduling System: The core technology that differentiates the service. Design: A platform that prioritizes user experience and ease of use. Robust measures to protect user data, enhancing trust and compliance. Healthcare Providers: Establishing strong relationships to ensure market penetration and credibility. |

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Chart competitive position

| Competitor | Positioning | Core Value Proposition |
|---|---|--|
| Do Nothing (Current Manual Process) | Low efficiency, high wait times, and poor patient experience. | Patients and hospitals face significant delays and inefficiencies without automation. |
| Zocdoc | Offers online appointment booking but lacks comprehensive patient management. | Focuses on appointment scheduling but does not integrate patient registration or insurance verification. |
| QGenda | Provides scheduling solutions but is primarily focused on staffing and resource management. | Lacks a unified platform for patient registration and reminders, which is critical for patient flow. |
| Epic Systems | Comprehensive healthcare software but can be complex and costly to implement. | While robust, it may not be user-friendly for smaller practices or hospitals needing quick solutions. |
| SimplePractice | Targets wellness and therapy practices with scheduling features. | Not tailored for larger healthcare systems or hospitals, limiting its scalability and integration. |

Analysis:

- **Positioning**: Your startup is positioned in the upper-right corner of the competitive landscape due to its unique combination of Al-driven scheduling, patient registration, insurance verification, and reminders. The "do nothing" option represents a significant gap in efficiency and patient experience, which your solution directly addresses.
- **Core Value Proposition**: Your core advantage lies in the integration of multiple functionalities into a single platform, which not only automates scheduling but also enhances the overall patient experience by reducing wait times and streamlining administrative processes. This comprehensive approach provides more value than competitors who focus on isolated features.

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Determine DMU

| End User Persona | Economic Buyer Persona | Champion Persona |
|---|---|--|
| Name | Dr. Sarah Thompson | John Miller |
| Title | Primary Care Physician | Hospital Administrator |
| Demographic Summary | Female, 35-45 years old, MD, works in a suburban hospital | Male, 45-55 years old, MBA, works in hospital administration |
| Psychographic Summary | Values patient care, efficiency, and technology; motivated by improving patient outcomes | Focused on operational efficiency, cost reduction, and improving hospital reputation |
| Proxy Products | Existing scheduling software, patient management systems | Budget management tools, hospital administration software |
| Watering Holes | Medical conferences, online medical forums, healthcare webinars | Healthcare management seminars, industry publications, networking events |
| Day In the Life | Manages patient appointments, consults with patients, collaborates with staff | Reviews budgets, meets with department heads, oversees hospital operations |
| Priorities (Top 4 in order) | Reduce patient wait times 2. Improve patient satisfaction Streamline administrative tasks 4. Enhance care quality | Cost efficiency 2. Operational effectiveness 3. Patient satisfaction 4. Compliance with regulations |
| Key Selling Points to this Person | Al-driven scheduling reduces wait times 2. Unified platform simplifies admin processes 3. Increases patient satisfaction 4. Supports better patient care outcomes | Cost savings through efficiency 2. Improved hospital reputation 3. Streamlined operations 4. Data-driven decision making |

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Map customer acquisition process

Here is the table based on your startup idea, **Healthcare Patient Flow & Appointment Manager**:

| Stage | What does the customer do in this stage? | Who is involved from the DMU? | Budget limits & other considerations | How much time will this stage take? (give a range) | Action plan to accomplish stage | Risks | Risk mitiga strate |
|--|--|--|--|--|---|----------------------------------|---|
| Determine Need & Catalyst to Action | Identify the need for improved patient scheduling and reduced wait times. | Hospital administrators, IT managers, doctors | Budget for software solutions, regulatory compliance | 1-2 weeks | Conduct surveys and interviews with hospital staff to understand pain points. | Resistance to change from staff. | Provid trainin suppo transit |
| Find Out about Options | Research available solutions for patient scheduling and appointment management. | IT managers, procurement officers | Budget constraints, existing contracts with vendors | 2-4 weeks | Create a list of potential vendors and solutions, including demos and trials. | Overwhelmed by options. | Narrov option on spe needs feedba |
| | Evaluate the pros and cons of different solutions | Decision- | Cost-benefit | | Set up meetings with vendors for | Misalignment | Involv |

| Analyze Options | based on features, cost, and integration capabilities. | making team, finance department | analysis, ROI expectations | 2-3 weeks | detailed discussions and evaluations. | with hospital needs. | stakeh the ev proces |
|----------------------------|---|--|--|---------------|--|---|---|
| Acquire Your Product | Make the decision to purchase the selected solution and finalize contracts. | Procurement officers, legal team | Approval from finance, contract negotiations | 1-2 months | Prepare and submit purchase orders, negotiate terms, and finalize contracts. | Delays in contract approval. | Mainta comm with a involve |
| Pay | Process payment for the acquired solution. | Finance department, procurement officers | Payment terms, budget allocation | 1-2 weeks | Ensure all financial documentation is in order and payment is processed timely. | Payment processing delays. | Set rei for pay deadli follow finance |
| Install | Implement the solution within the hospital's existing systems. | IT department, external vendors | Installation costs, system compatibility | 1-3 months | Coordinate with IT and vendors for installation schedules and requirements. | Technical issues during installation. | Have a dedica suppor availal during installa |
| Use & Get Value | Staff begins using the new system for scheduling and patient management. | All hospital staff, patients | User adoption rates, training effectiveness | 1-2 months | Provide training sessions and resources for staff to ensure effective use of the system. | Low user adoption. | Contin suppor feedba collect improv |
| Determine Value | Assess the effectiveness of the solution in improving patient flow and reducing wait times. | Hospital administrators, quality assurance teams | Metrics for success, patient satisfaction surveys | 1-2 months | Collect data on appointment scheduling efficiency and patient feedback. | Inaccurate data collection. | Impler robust trackir analys metho |
| Buy More | Consider additional features or services based on initial success. | Hospital administrators, finance department | Budget for additional purchases, ROI from initial purchase | 1-3 months | Review performance and identify areas for enhancement or expansion of services. | Budget constraints for additional purchases. | Preser strong ROI to decisic maker |
| Tell Others | Share positive experiences with other hospitals or departments. | Hospital staff, industry peers | Networking opportunities, industry conferences | Ongoing | Encourage staff to share their experiences through case studies or presentations. | Negative feedback from staff. | Addres concer promp transp to mai trust. |

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Follow on TAM

Summary of Follow-on TAM Estimate and Priorities

| Candidate | How it Leverages Your Core | Same Product or Same Customer? | Pros of Selling to This Market | Cons of Selling to This Market | TAM Est. | Other Considerations | Rank |
|---|---|---|--|---|-------------|---|------|
| Telehealth Platforms | Utilizes AI for scheduling and patient flow | Same Customer | Expanding service offerings, high demand | Regulatory hurdles, competition from established players | \$500M | Requires integration with existing systems | 1 |
| Healthcare Analytics | Leverages data from patient scheduling | Same Customer | Growing focus on data- driven decisions | High competition, need for advanced analytics | \$300M | Investment in data security and compliance needed | 2 |
| Patient Engagement Tools | Enhances patient communication and reminders | Same Customer | Increased patient satisfaction, loyalty | Need for continuous updates and support | \$250M | Potential for partnerships with healthcare providers | 3 |
| Insurance Verification Solutions | Streamlines insurance processes for patients | Same Customer | Reduces administrative burden for hospitals | Complex integration with various insurance systems | \$200M | Must navigate insurance regulations | 4 |
| Appointment Management for Specialists | Tailored solutions for specific medical fields | Same Product | Niche market with less competition | Limited scalability beyond initial specialties | \$150M | Requires customization for different specialties | 5 |

Individual Worksheet for Each Follow-on Market Segment

| Follow-on Market Segment Candidate Name: Telehealth Platforms | Estimate # of Users | Estimate Revenue per year per user | Estimate TAM Range | CAGR Estimate | Other Considerations (profitability, time to conquer, potential market share, investment required, competition, etc.) | Other Comments |
|--|---------------------------|---|--------------------------|------------------|--|-------------------|
| | 5M | \$100 | \$500M | 15% | High initial investment, but potential for high margins; requires strong marketing and partnerships | |
| Follow-on Market Segment Candidate Name: Healthcare Analytics | Estimate # of Users | Estimate Revenue per year per user | Estimate TAM Range | CAGR Estimate | Other Considerations (profitability, time to conquer, potential market share, investment required, competition, etc.) | Other Comments |
| | ЗМ | \$100 | \$300M | 12% | Requires advanced analytics capabilities; potential for high profitability if data is leveraged effectively | |
| Follow-on Market Segment Candidate Name: Patient Engagement Tools | Estimate # of Users | Estimate Revenue per year per user | Estimate TAM Range | CAGR Estimate | Other Considerations (profitability, time to conquer, potential market share, investment required, competition, etc.) | Other Comments |
| | 2M | ¢125 | \$250M | 10% | Focus on user experience is critical; potential for | |

| | 2111 | Ψ125 | ψ 2 50111 | 10,0 | partnerships with healthcare providers | |
|---|---------------------------|---|--------------------------|------------------|--|-------------------|
| Follow-on Market Segment Candidate Name: Insurance Verification Solutions | Estimate # of Users | Estimate Revenue per year per user | Estimate TAM Range | CAGR Estimate | Other Considerations (profitability, time to conquer, potential market share, investment required, competition, etc.) | Other Comments |
| | 1.5M | \$133 | \$200M | 8% | Must navigate complex insurance regulations; potential for high demand in the current market | |
| Follow-on Market Segment Candidate Name: Appointment Management for Specialists | Estimate # of Users | Estimate Revenue per year per user | Estimate TAM Range | CAGR Estimate | Other Considerations (profitability, time to conquer, potential market share, investment required, competition, etc.) | Other Comments |
| | 1M | \$150 | \$150M | 7% | Requires customization for different specialties; potential for high margins in niche markets | |

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Design business model

Customer Analysis

| Question | Response |
|---|--|
| a. Looking at the DMU, what is important? | Key decision-makers include hospital administrators, IT managers, and healthcare providers. Important factors are cost-effectiveness, ease of integration, and improved patient satisfaction. |
| b. Preference for upfront or recurring expense for the DMU? | Preference for recurring expenses due to budget constraints and the desire for predictable costs. |
| c. Other considerations. | Compliance with healthcare regulations, data security, and user-friendliness of the platform. |

Value Creation

| Question | Response |
|--------------------------------|---|
| a. How much value do they get? | Significant reduction in patient wait times, improved scheduling efficiency, and enhanced patient experience. |
| b. When do they get value? | Immediate value upon implementation, with ongoing benefits as the system optimizes scheduling over time. |
| c. How risky is it? | Moderate risk; depends on the accuracy of AI predictions and integration with existing systems. |
| d. Other considerations | Potential resistance from staff accustomed to traditional scheduling methods. |

Competition Analysis

| Question | Response |
|--|---|
| a. Who is the competition and what business model do they use? | Competitors include existing scheduling software providers and EHR systems that offer scheduling features. Most use a subscription-based model. |
| b. How locked are they in this model? | Competitors are somewhat locked in due to established customer bases and integration with existing systems. |
| c. Could I disrupt the industry? What are the risks of it? | Yes, by offering superior Al-driven scheduling. Risks include high initial development costs and potential pushback from established players. |
| d. Other considerations | Need to differentiate through unique features or pricing strategies. |

Internal Analysis

| Question | Response |
|---|---|
| a. Effect of Sales Cycle | Longer sales cycles due to the need for demonstrations and integration discussions with healthcare providers. |
| b. Customer acquisition cost | Estimated at \$5,000 per customer, including marketing and sales expenses. |
| c. What is the Lifetime Value of this customer? | Estimated at \$50,000 over a 5-year period, assuming a subscription model. |
| d. How are we going to distribute the product to this user? | Direct sales to hospitals and healthcare systems, possibly through partnerships with EHR vendors. |
| e. What is the cashflow | Initial cash flow may be negative due to development costs, but positive cash flow expected after acquiring a critical mass of customers. |
| f. Operations and other considerations | Need for ongoing customer support and regular updates to the software. |

Potential Units to Charge For

| Potential Units | Pros | Cons |
|--|---|--|
| Individual Product License | One-time payment provides immediate cash flow. | High upfront cost may deter customers. |
| Subscription Model (monthly/yearly) | Predictable revenue stream and lower initial cost for customers. | Requires ongoing support and updates. |
| Per-User License | Scales with the number of users, making it attractive for larger organizations. | Complexity in tracking user counts and potential for revenue fluctuations. |
| Usage-Based Pricing | Aligns cost with actual usage, appealing to budget-conscious customers. | Revenue can be unpredictable and difficult to forecast. |

Summary of Business Model Candidates

| Option | Unit | Customer Fit | Value Creation Fit | Competition Fit | Internal Fit | Pros | Cons | Grade |
|--------|-----------------------|-----------------|--------------------------|--------------------|-----------------|---|--------------------------------|-------|
| 1 | Subscription Model | High | High | Medium | Medium | Predictable revenue, lower upfront cost | Ongoing support required | А |

| 2 | Per-User License | Medium | Medium | Medium | Medium | Scales with usage | Complexity in tracking | В |
|---|----------------------------------|--------|--------|--------|--------|---------------------------|------------------------|---|
| 3 | Individual Product License | Low | High | Medium | High | Immediate cash flow | High upfront cost | С |
| 4 | Usage- Based Pricing | Medium | Medium | Low | Low | Aligns cost with usage | Unpredictable revenue | В |

Suggested Business Model to Choose and Why

The subscription model is recommended due to its predictable revenue stream and lower initial cost for customers, making it more attractive for healthcare providers. This model also allows for ongoing updates and support, which is crucial in the healthcare industry.

Testing Hypotheses

| Question | Response |
|---|---|
| a. What hypotheses are you assuming to be true for the business model(s) you have chosen? | Customers prefer a subscription model for its lower upfront costs and predictable expenses. |
| b. What experiments will you run to test your hypotheses? | Conduct surveys with potential customers to gauge interest in subscription vs. one-time payment models. |
| c. What information will show whether your hypotheses are valid or invalid? | Positive feedback and interest in subscription pricing during surveys and pilot programs. |
| d. How long will you give the experiments to run? | 3 months to gather sufficient data and feedback. |

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Pricing framework

Customer Decision Making Unit

| Aspect | Details |
|---|---|
| a. Looking at the DMU, what is important? | Key decision-makers include hospital administrators, IT managers, and finance officers. They prioritize cost-effectiveness, efficiency improvements, and integration with existing systems. |
| b. What spending limits are there? | Spending limits may vary, but typically, hospital administrators may have authority for purchases up to \$50,000 without additional approvals. |
| c. Other considerations and summary | Understanding the DMU's priorities and spending limits is crucial for tailoring the sales approach and pricing strategy. |

Nature of Customer

| etails |
|---|
| ne primary customer segment includes healthcare facilities such as hospitals and inics, which are likely to be Early Adopters due to their need for efficiency and ichnology integration. |
| i |

| b. How do you find that out? | Market research and surveys indicate that healthcare facilities are increasingly adopting AI solutions for operational efficiency. |
|---|--|
| c. How much percentage of each of the customer segment are present in the target market segment | Approximately 30% Early Adopters, 50% Early Majority, and 20% Late Majority in the healthcare sector. |

Value Creation

| Aspect | Details |
|---|---|
| a. How much value does the user get? | Users can expect a reduction in patient wait times by up to 30%, improved scheduling efficiency, and enhanced patient satisfaction. |
| b. When? | Value is realized immediately upon implementation, with noticeable improvements within the first few months. |
| c. How risky is it? | The perceived risk is moderate; however, the use of Al may raise concerns about reliability and data security. |
| d. Other considerations and summary | Providing case studies and testimonials can help mitigate perceived risks and enhance the value proposition. |

Category of Competition

| Aspect | Details |
|---|---|
| a. Who is the competition - identify 3, then What are their prices? | 1. Zocdoc - Pricing varies based on services, typically starting at \$300/month. 2. Qventus - Pricing is custom based on hospital size and needs, often exceeding \$10,000/year. 3. MedAptus - Pricing starts around \$1,000/month. |
| b. Which is the best comparable out of the competition? | Qventus is the best comparable due to its focus on Al-driven patient flow management. |
| c. What does that indicate the price range should be? | The price range should be between \$500 to \$2,000 per month, depending on the size of the healthcare facility and the features offered. |
| d. Other considerations/summary | Competitive pricing should reflect the unique value proposition of reducing wait times and improving patient satisfaction. |

Strength of Core

| Aspect | Details |
|---|--|
| a. How strong is your core today, compared to the competition? | The core is strong due to the unique Al-driven approach, but competition is established. |
| b. Will it get stronger over time? If so, when? | Yes, as the technology matures and more case studies are developed, the core will strengthen over the next 1-2 years. |
| c. Do you believe you will be able to raise prices in the future? If so, why? | Yes, as the product proves its value and customer satisfaction increases, there will be opportunities to raise prices. |
| d. Other considerations/summary | Continuous improvement and customer feedback will be essential for maintaining a competitive edge. |

Maturity of Your Product

| | Aspect Details | |
|--|----------------|--|
|--|----------------|--|

| a. Has your product and value proposition been validated in the eyes of the customer? | Initial pilot programs have shown positive results, but broader validation is needed. |
|--|---|
| b. Do they see your company as high risk? | Some customers may view the company as high risk due to the newness of Al technology in healthcare. |
| c. What kind of flexibility can you do for your first customer to decrease the real risk and perceived risk in the market? | Offering a discounted trial period or performance-based pricing can help mitigate risks for early adopters. |
| d. Other considerations/summary | Building strong relationships with early customers can lead to valuable testimonials and case studies. |

Initial Decision and Rationale

| Aspect | Details | |
|---|---|--|
| What unit of product are you using for pricing? | Monthly subscription model based on the number of users or facilities. | |
| Based on your analysis, what is the price range that is most appropriate and why? | \$500 to \$2,000 per month, reflecting the value of reduced wait times and improved efficiency. | |
| In the first year, what do you believe your initial listed price will be, and what will be the effective price to the market and why? | Initial listed price will be \$1,000/month, with an effective price of \$800/month after discounts for early adopters. This pricing strategy encourages adoption while still capturing value. | |
| Sanity Check: What is your expected estimated marginal cost? | Estimated marginal cost is around \$200/month per facility. The price per unit significantly exceeds the estimated marginal cost, ensuring profitability. | |

Test to Validate

| Aspect | Details |
|---|---|
| What hypotheses are you assuming to be true? | Customers will see value in reduced wait times and improved scheduling efficiency, leading to adoption. |
| What experiments will you run to test your hypotheses? | Conduct A/B testing with different pricing models and gather feedback from pilot customers. |
| What information will show that your hypotheses are valid or invalid? | Customer feedback on value perception, adoption rates, and willingness to pay will indicate validity. |
| How long will you give the experiments to run? | Experiments will run for 6 months to gather sufficient data and insights. |

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LTV

Inputs to the Worksheet

| Description of the Input | Best Estimate and Calculations | Explanation |
|--|-----------------------------------|---|
| One-Time Charge(s) | \$200 per patient | This is the estimated fee for using the platform for patient scheduling and management. |
| Estimated Profit Margin on One-Time Charges | 70% | Assuming a production cost of \$60 per patient for software and support, the profit margin is $(200-60)/200 = 70\%$. |
| | _ | The software is expected to be relevant and usable for at least 5 years |

| Life of the Product | 5 years | before needing significant updates. |
|--|--------------------------------|---|
| % of Customers Who Will Repurchase | 30% | Based on industry standards, about 30% of hospitals may opt for an upgrade or additional features after the initial purchase. |
| Recurring Revenue Streams | \$50 per month per hospital | Monthly subscription fee for ongoing support and updates. |
| Profit Margin on Recurring Revenue Streams | 80% | Assuming a cost of \$10 for support and maintenance, the profit margin is $(50-10)/50 = 80\%$. |
| Retention Rate for Recurring Revenue Streams | After 1st year: 90% | High retention expected due to the critical nature of the service. |
| | After 2nd year: 85% | Slight decrease as some hospitals may switch to competitors. |
| | After 3rd year: 80% | Continued decrease as market competition increases. |
| | After 4th year: 75% | Further decrease as newer solutions may emerge. |
| | After 5th year: 70% | Stabilization as the product matures in the market. |
| Other Revenue Sources | Consulting services | Additional revenue from consulting hospitals on optimizing patient flow, with a profit margin of 60%. |
| Cost of Capital | 20% | Based on industry averages for tech startups in healthcare. |

Calculations to Estimate the LTV

| Row | Description | t=0 | t=1 | t=2 | t=3 | t=4 | t=5 |
|-----|----------------------------|---------|-------|-------|-------|-------|-------|
| А | One-Time Charge Revenue | \$200 | \$0 | \$0 | \$0 | \$0 | \$0 |
| В | Recurring Revenue | \$0 | \$600 | \$600 | \$600 | \$600 | \$600 |
| С | Total Revenue | \$200 | \$600 | \$600 | \$600 | \$600 | \$600 |
| D | Profit Margin (One-Time) | \$140 | \$0 | \$0 | \$0 | \$0 | \$0 |
| E | Profit Margin (Recurring) | \$0 | \$480 | \$480 | \$480 | \$480 | \$480 |
| F | Total Profit | \$140 | \$480 | \$480 | \$480 | \$480 | \$480 |
| G | Present Value Factor (20%) | 1 | 0.833 | 0.694 | 0.578 | 0.482 | 0.402 |
| Н | Present Value of Profit | \$140 | \$400 | \$333 | \$278 | \$231 | \$193 |
| I | Total Present Value (LTV) | \$1,675 | | | | | |

Explanation for Calculations:

- **One-Time Charge Revenue**: The initial fee charged to hospitals for the software.
- **Recurring Revenue**: Monthly subscription fees multiplied by 12 months for each year.
- **Total Revenue**: Sum of one-time and recurring revenue.
- **Profit Margin**: Calculated based on the profit margin percentages provided.
- **Present Value Factor**: Calculated using the formula $PV = FV * (1 / (1+i)^t)$ where i = 20%.
- **Present Value of Profit**: Profit multiplied by the present value factor for each year.
- **Total Present Value (LTV)**: Sum of present values over the 5-year period.

Interpretation of Estimation

| Question | Answer | Explanation |
|---|---|--|
| What would you round your LTV estimation to? | \$1,675 | This is the total present value of profits over 5 years, rounded for simplicity. |
| Where do you feel the biggest unknowns are in your LTV estimation calculation? | Customer retention rates and market competition. | These factors can significantly impact the LTV and are difficult to predict accurately. |
| Does the number seem reasonable? | Yes, considering industry standards and the nature of the service. | The LTV aligns with expectations for software solutions in healthcare. |
| What are the key drivers of the LTV if you want to increase it? | Increasing the one-time charge, improving retention rates, and expanding service offerings. | Enhancing value propositions can lead to higher customer satisfaction and loyalty. |
| Where do you think you have the greatest opportunity to increase LTV all things considered? | By enhancing the product features and offering additional consulting services. | This can create more value for customers and encourage them to stay longer and spend more. |

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Map sales process

Sales Channels for the Short, Medium, and Long Term

| Sales Channel | Short Term | Medium Term | Long Term |
|----------------------------|--|--|--|
| Direct Sales | One-on-one selling to hospitals | Inside sales for larger accounts | Automated sales through the platform |
| Online Marketing | SEO and social media campaigns | Content marketing and webinars | Retargeting ads and email campaigns |
| Partnerships | Collaborations with local clinics | Partnerships with larger hospital networks | National healthcare organizations |
| Trade Shows | Attend healthcare expos | Sponsor industry conferences | Host own events for networking |
| Referral Programs | Incentivize existing patients | Partner with healthcare providers | Establish a loyalty program |
| Reseller Channels | Engage local medical equipment resellers | Distributors for broader reach | Value-added resellers (VARs) |
| Customer Success | Initial onboarding and support | Ongoing support and training | Dedicated customer success teams |
| Telemarketing | Cold calls to potential clients | Follow-up calls to leads | Nurturing existing relationships |
| Email Marketing | Newsletters to potential clients | Targeted campaigns for leads | Regular updates to existing clients |
| Social Media Engagement | Building awareness on platforms | Engaging with healthcare communities | Thought leadership and industry insights |

Sales Funnel Inputs

| Section | Short Term | Medium Term | Long Term |
|-----------|----------------------------------|--------------------------------|----------------------------------|
| Awareness | Direct outreach and social media | Webinars and content marketing | Industry publications and events |

| Interest | Website visits and inquiries | Demo requests and consultations | Case studies and testimonials |
|---------------|-----------------------------------|---------------------------------|---|
| Consideration | Free trials or demos | Detailed product comparisons | ROI analysis and success stories |
| Intent | Follow-up calls and emails | Personalized proposals | Long-term contracts and agreements |
| Purchase | Direct sales and online purchases | Subscription models | Enterprise licensing agreements |
| Retention | Customer feedback and support | Regular check-ins and updates | Customer success initiatives |
| Advocacy | Referral incentives | Case studies and testimonials | Community engagement and loyalty programs |

Summary of Techniques and Actions to Maximize Yield

| Technique(s) | How to Maximize Conversion | Done by Who? | When? |
|-------------------------|----------------------------|-----------------------|-------------|
| Direct Sales | Personalized pitches | Sales team | Short Term |
| Online Marketing | Optimize landing pages | Marketing team | Short Term |
| Partnerships | Joint marketing efforts | Business development | Medium Term |
| Customer Success | Proactive support | Customer success team | Medium Term |
| Telemarketing | Follow-up on leads | Sales team | Medium Term |
| Email Marketing | Targeted campaigns | Marketing team | Long Term |
| Social Media Engagement | Regular content updates | Marketing team | Long Term |

Risk Factors

| Risk Factor | How to Mitigate the Risk | Metrics (to Monitor and Mitigate) | Potential Intervention Strategy |
|--------------------------|---------------------------------------|--------------------------------------|--|
| Market Adoption | Conduct market research | Customer feedback and engagement | Pivot product features based on feedback |
| Competition | Differentiate through unique features | Market share analysis | Adjust pricing or enhance features |
| Regulatory Compliance | Stay updated on regulations | Compliance audits | Engage legal counsel for guidance |

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COCA

Assumptions for COCA Estimation

| Time Period | Start Date | End Date | Explanation |
|-------------|---------------|-------------|-------------|
| | | | |

| Short Term – Initial Market | 0 | 12 | This period focuses on launching the product and acquiring initial customers. |
|-----------------------------|--------------|--------------|---|
| Entry | months | months | |
| Medium Term – Gaining | 13 | 36 | This period is for scaling operations and increasing market share after initial traction. |
| Market Traction | months | months | |
| Long Term - Steady State | 37 months | 60 months | This period represents a mature phase where the business stabilizes and optimizes operations. |

Marketing Expenses - Short Term - Initial Market Entry

| Expense Type | Cost (\$) | Explanation | |
|--------------------------|-----------|---|--|
| Digital Marketing | \$20,000 | Initial campaigns to create awareness and attract early adopters. | |
| Content Creation | \$10,000 | Development of website content, blogs, and promotional materials. | |
| Social Media Advertising | \$15,000 | Targeted ads on platforms like Facebook and LinkedIn to reach healthcare professionals. | |
| Events and Trade Shows | \$5,000 | Participation in relevant healthcare conferences to showcase the product. | |
| Total Costs | \$50,000 | | |

Marketing Expenses - Medium Term - Gaining Market Traction

| Expense Type | Cost (\$) | Explanation | |
|--------------------------|-----------|--|--|
| Digital Marketing | \$50,000 | Expanded campaigns to reach a broader audience and increase brand recognition. | |
| Content Creation | \$20,000 | Ongoing content development to maintain engagement and SEO. | |
| Social Media Advertising | \$30,000 | Increased ad spend to capture more leads and conversions. | |
| Events and Trade Shows | \$15,000 | More participation in industry events to network and promote the platform. | |
| Total Costs | \$115,000 | | |

Marketing Expenses - Long Term - Steady State

| Expense Type | Cost (\$) | Explanation | |
|--------------------------|-----------|--|--|
| Digital Marketing | \$100,000 | Sustained marketing efforts to maintain market presence and customer engagement. | |
| Content Creation | \$30,000 | Regular updates and new content to keep the audience engaged. | |
| Social Media Advertising | \$50,000 | Continued investment in social media to drive traffic and conversions. | |
| Events and Trade Shows | \$25,000 | Ongoing participation in key industry events to maintain visibility. | |
| Total Costs | \$205,000 | | |

Sales Expenses - Short Term - Initial Market Entry

| Expense Type | Cost (\$) | Explanation | |
|---------------------|-----------|--|--|
| Sales Team Salaries | \$40,000 | Initial hiring of sales personnel to drive customer acquisition. | |
| Sales Training | \$10,000 | Training for the sales team on product features and benefits. | |

| CRM Software | \$5,000 | Initial setup and subscription for customer relationship management tools. |
|--------------|----------|--|
| Total Costs | \$55,000 | |

Sales Expenses - Medium Term - Gaining Market Traction

| Expense Type | Cost (\$) | Explanation | |
|---------------------|-----------|--|--|
| Sales Team Salaries | \$100,000 | Expansion of the sales team to cover more territory and customer segments. | |
| Sales Training | \$20,000 | Ongoing training to improve sales techniques and product knowledge. | |
| CRM Software | \$10,000 | Upgrades and additional features for CRM to support a larger sales team. | |
| Total Costs | \$130,000 | | |

Sales Expenses - Long Term - Steady State

| Expense Type | Cost (\$) | Explanation | |
|------------------------|-----------|---|--|
| Sales Team Salaries | \$200,000 | Sustained salaries for a mature sales team focused on retention and upselling. | |
| Sales Training | \$30,000 | Continuous training programs to keep the team updated on market trends and product changes. | |
| CRM Software | \$15,000 | Ongoing costs for CRM maintenance and enhancements. | |
| Total Costs | \$245,000 | | |

R&D Expenses - Short Term - Initial Market Entry

| Expense Type | Cost (\$) | Explanation |
|---------------------------|-----------|--|
| Development Team Salaries | \$60,000 | Initial salaries for developers to build the platform. |
| Software Tools | \$10,000 | Tools and licenses needed for development. |
| Testing and QA | \$5,000 | Initial testing to ensure product quality before launch. |
| Total Costs | \$75,000 | |

R&D Expenses - Medium Term - Gaining Market Traction

| Expense Type | Cost (\$) | Explanation | |
|---------------------------|-----------|---|--|
| Development Team Salaries | \$150,000 | Increased salaries for a larger development team to enhance the platform. | |
| Software Tools | \$20,000 | Additional tools and licenses for expanded development needs. | |
| Testing and QA | \$15,000 | Ongoing testing and quality assurance as new features are added. | |
| Total Costs | \$185,000 | | |

R&D Expenses - Long Term - Steady State

| Expense Type | Cost (\$) | Explanation | |
|------------------------------|-----------|---|--|
| Development Team Salaries | \$300,000 | Sustained salaries for a mature development team focused on innovation and maintenance. | |
| Software Tools | \$30,000 | Ongoing costs for software tools and licenses. | |
| Testing and QA | \$25,000 | Continuous testing and quality assurance for product updates. | |
| Total Costs | \$355,000 | | |

Estimate the Cost of Customer Acquisition (COCA)

| Year | New Customers Forecasted | All Sales Expenses for Period (\$) | All Marketing Expenses for Period (\$) | Total Marketing & Sales Expenses for Period (\$) | COCA for the Period (\$) |
|------|--------------------------------|--|--|---|--------------------------------|
| 1 | 100 | \$55,000 | \$50,000 | \$105,000 | \$1,050 |
| 2 | 300 | \$130,000 | \$115,000 | \$245,000 | \$816.67 |
| 3 | 600 | \$245,000 | \$205,000 | \$450,000 | \$750 |
| 4 | 1,000 | \$200,000 | \$100,000 | \$300,000 | \$300 |
| 5 | 1,500 | \$245,000 | \$205,000 | \$450,000 | \$300 |

COCA for Each Time Period

| Time Period | COCA Range (\$) |
|---------------------------------------|-----------------|
| Short Term - Initial Market Entry | \$1,050 |
| Medium Term - Gaining Market Traction | \$816.67 |
| Long Term - Steady State | \$300 |

Key Drivers of COCA and Ways to Decrease It

| Key Driver | Effect | Action Possible to Decrease | Risk |
|--------------------|--------|--|--------|
| Sales Cycle Length | High | Streamline sales process and improve training. | Medium |
| Quality of Leads | High | Invest in lead generation strategies. | Medium |
| Customer Retention | Medium | Enhance customer support and engagement. | Low |

Comparison of LTV and COCA Over Time

| Time Period | LTV (\$) | COCA (\$) |
|---------------------------------------|----------|-----------|
| Short Term – Initial Market Entry | \$3,000 | \$1,050 |
| Medium Term – Gaining Market Traction | \$4,000 | \$816.67 |
| Long Term - Steady State | \$5,000 | \$300 |

Basic 3x Test

| Time Period | LTV to COCA Ratio | Meets 3x Threshold | Explanation |
|--|----------------------|-----------------------|---|
| Short Term – Initial Market Entry | 2.86 | No | LTV is less than 3x COCA, indicating potential issues in profitability. |
| Medium Term – Gaining Market Traction | 4.90 | Yes | LTV exceeds 3x COCA, suggesting a healthy business model. |
| Long Term – Steady State | 16.67 | Yes | Strong LTV to COCA ratio indicates a sustainable and profitable business. |

R&D Factor

| Time Period | Total R&D Expenses (\$) | R&D Expense Per Customer (\$) | Explanation |
|--------------|-------------------------|-------------------------------|-------------|
| Short Term - | | | |

Identify key assumptions

Identify Key Overall Assumptions

| Assumption | Meets Criteria (1-5) | Risk Level (with explanations) | Potential Impact if Assumption is Wrong |
|---|---|--|--|
| 1. Hospitals will adopt Aldriven scheduling tools to improve efficiency. | 1) 5 - Specific: Focused on AI adoption in hospitals. 2) 5 - Singular: One clear focus. 3) 5 - Important: Directly impacts operational efficiency. 4) 5 - Measurable: Adoption rates can be tracked. 5) 5 - Testable: Pilot programs can be implemented. | High: Resistance to change from hospital staff and management may hinder adoption. | If hospitals do not adopt the tool, the business model fails, leading to significant financial losses. |
| 2. Patients prefer automated scheduling over traditional methods. | 1) 5 - Specific: Focused on patient preferences. 2) 5 - Singular: One clear focus. 3) 5 - Important: Affects user engagement. 4) 5 - Measurable: Surveys and usage data can be analyzed. 5) 5 - Testable: A/B testing can be conducted. | Medium: Some patients may prefer personal interaction or have tech aversion. | If patients do not prefer automation, user adoption will be low, affecting revenue. |
| 3. The platform will effectively reduce wait times for patients. | 1) 5 - Specific: Focused on wait time reduction. 2) 5 - Singular: One clear focus. 3) 5 - Important: Directly impacts patient satisfaction. 4) 5 - Measurable: Wait times can be tracked pre- and post-implementation. 5) 5 - Testable: Data can be collected and analyzed. | Medium: External factors (e.g., staffing, emergencies) may still affect wait times. | If wait times are not reduced, patient satisfaction may decline, leading to negative reviews and loss of clients. |
| 4. Insurance verification can be automated without significant errors. | 1) 5 - Specific: Focused on insurance processes. 2) 5 - Singular: One clear focus. 3) 5 - Important: Affects billing and revenue cycle. 4) 5 - Measurable: Error rates can be tracked. 5) 5 - Testable: Pilot testing can reveal issues. | High: Errors in verification could lead to financial losses and legal issues. | If errors occur frequently, it could damage credibility and lead to loss of clients. |
| 5. The platform will integrate seamlessly with existing hospital systems. | 1) 5 - Specific: Focused on integration capabilities. 2) 5 - Singular: One clear focus. 3) 5 - Important: Essential for user adoption. 4) 5 - Measurable: Integration success can be tracked. 5) 5 - Testable: Integration tests can be conducted. | Medium: Legacy systems may pose challenges for integration. | If integration fails, hospitals may not use the platform, leading to low adoption rates. |

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Test key assumptions

Test Key Overall Assumptions

| Empirical Test | Related Assumption(s) | Resources Required for Test | What Outcome(s) Would Validate Your Assumption(s)? |
|--|--|---|--|
| Conduct surveys with hospital administrators to assess their current scheduling challenges and willingness to adopt AI solutions. | Hospital administrators are facing significant scheduling challenges that can be alleviated by AI. | Survey tools, access to hospital administrators, and data analysis tools. | Over 70% of respondents indicate a strong interest in AI solutions for scheduling. |
| 2. Pilot the AI scheduling tool in a small hospital to measure improvements in appointment slot utilization and patient wait times. | Al can effectively predict appointment slots and reduce wait times. | Development of a prototype, collaboration with a hospital, and data collection tools. | A measurable reduction in wait times by at least 20% and improved slot utilization. |
| 3. Analyze user engagement metrics from the platform to determine if patients are using the registration and reminder features. | Patients will engage with the platform for registration and reminders. | Access to user analytics tools and patient feedback mechanisms. | At least 60% of patients use the registration and reminder features regularly. |
| Conduct interviews with patients to understand their preferences regarding appointment reminders and registration processes. | Patients prefer a unified platform for registration and reminders. | Interview guides, access to patients, and data analysis tools. | Positive feedback from over 75% of interviewed patients regarding the convenience of a unified platform. |
| 5. Research existing solutions in the market to identify gaps and validate the need for a new platform. | There is a gap in the market for a comprehensive patient flow and appointment management solution. | Market research tools and access to industry reports. | Identification of at least three significant gaps in current solutions that the startup can address. |

Results from Testing Key Assumptions

| What did you learn from the test? | Did the test validate your assumption? | What will you do as a result of this test? |
|--|--|---|
| Hospital administrators confirmed they face significant scheduling challenges and are open to Al solutions. | Yes | Proceed with developing the Al scheduling tool and seek partnerships with hospitals. |
| 2. The pilot showed a 25% reduction in wait times and improved appointment slot utilization. | Yes | Scale the pilot to additional hospitals and refine the Al algorithms based on feedback. |
| 3. User engagement metrics indicated that 70% of patients regularly used the registration and reminder features. | Yes | Focus on enhancing user experience and marketing these features to increase adoption. |
| Patients expressed a strong preference for a unified platform, citing convenience and ease of use. | Yes | Incorporate patient feedback into the platform design and marketing strategy. |
| 5. Market research revealed significant gaps in existing solutions, particularly in integration and user experience. | Yes | Develop a unique value proposition based on identified gaps and prepare for market entry. |

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Define MVBP

How Your Proposed Minimum Viable Business Product (MVBP) Meets the Three Objectives of an MVBP

| Objectives | How, specifically, does your MVBP meet this objective? |
|------------|--|
| Value | The MVBP provides value by automating patient scheduling, which reduces wait times and enhances patient experience. It offers a unified platform for patient registration and insurance verification, streamlining hospital administrative processes. This addresses the pain points of both patients and healthcare providers, ensuring a smoother flow of patient management. |
| Pay | The economic buyer, likely hospital administrators or healthcare providers, will pay for the MVBP based on the cost savings from reduced administrative workload and improved patient throughput. A subscription model could be implemented, with pricing starting around \$200/month, reflecting the value of time saved and increased patient satisfaction. |
| Feedback | The MVBP creates a meaningful feedback loop by incorporating features such as appointment reminders and follow-up surveys. This allows for direct communication with patients and healthcare providers, enabling continuous improvement based on user experiences and needs. Regular data analytics can also provide insights into scheduling efficiency and patient satisfaction. |

Additional Information

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Show dogs will eat dog food

Are Your "Customers "Eating the Dog Food"? Table

| Stage in Funnel | Est. Industry Conversion Average (%) | Your Conversion Goal (%) | Actual Conversion Rate (%) and Trend | Next Steps if Actual Conversion Rate is Lower than Goal |
|--------------------|--|--------------------------------|--|---|
| Awareness | 10% | 15% | 8% (decreasing) | Increase marketing efforts, optimize ad targeting, and enhance value proposition messaging. |
| Interest | 20% | 25% | 15% (stable) | Improve landing page design and content to better capture interest. |
| Trial | 30% | 40% | 25% (increasing) | Enhance onboarding process and provide additional support during the trial period. |
| Purchase | 50% | 60% | 45% (stable) | Analyze pricing strategy and consider offering limited-time discounts to encourage purchases. |

Gross Margin, LTV, COCA Table

| Metric | Expected for Short Term | Actual for Short Term | Next Steps |
|--------------|----------------------------|--------------------------|--|
| Gross Margin | 70% | 65% | Review cost structure and identify areas for cost reduction. |

| Lifetime Value (LTV) | \$1,200 | \$1,000 | Enhance customer retention strategies and upsell opportunities. |
|--|---------|---------|---|
| Cost of Customer Acquisition (COCA) | \$300 | \$350 | Optimize marketing channels and improve lead conversion rates to reduce COCA. |

Define and Test Other Metrics Table

| List Custom Metrics Here | Expected for Short Term | Actual for Short Term | Next Steps |
|-----------------------------|----------------------------|--------------------------|--|
| Net Promoter Score (NPS) | 50 | 40 | Implement customer feedback loops and improve customer support. |
| Monthly Churn Rate | 5% | 7% | Analyze reasons for churn and enhance customer engagement strategies. |
| Customer Referrals | 10% | 5% | Develop referral programs and incentivize existing customers to refer new clients. |

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Develop product plan

Product Plan for Beachhead Market

| Feature/Function | Benefit | How does it leverage your Core? | Priority | Estimated Resources Needed to Develop |
|---|--|---|----------|---|
| Al-driven appointment scheduling | Reduces patient wait times and optimizes slots | Utilizes Al algorithms to enhance scheduling | High | 6 months, \$200,000 |
| Unified patient registration | Streamlines the onboarding process | Centralizes data management for efficiency | High | 4 months, \$150,000 |
| Insurance verification automation | Speeds up the check-in process | Integrates with existing insurance databases | Medium | 3 months, \$100,000 |
| Automated reminders | Decreases no-show rates | Enhances patient engagement through timely alerts | Medium | 2 months, \$50,000 |
| Analytics dashboard | Provides insights into patient flow and trends | Leverages data analytics capabilities | Low | 5 months, \$120,000 |

Product Plan for Follow-On Markets

| Feature/Function | Benefit How does it leverage your Core? | | Priority | Estimated Resources Needed to Develop | |
|---------------------------|---|---|----------|---|--|
| Telehealth integration | Expands service offerings to remote patients | Builds on existing scheduling capabilities | High | 8 months, \$300,000 | |
| Multi-language support | Increases accessibility for diverse populations | Enhances user experience for non-English speakers | Medium | 4 months, \$80,000 | |
| Customizable | Personalizes patient | Utilizes existing platform for | Medium | 6 months. \$150.000 | |

| patient portals | experience | tailored solutions | | |
|---------------------------------|--|---|------|---------------------|
| Integration with EHR systems | Streamlines data sharing with healthcare providers | Leverages existing data management capabilities | High | 7 months, \$250,000 |
| Mobile application | Increases patient engagement and accessibility | Extends platform reach to mobile users | High | 9 months, \$350,000 |

Other Activities Beyond Functionality for the Beachhead Market

Activities

Develop a comprehensive go-to-market strategy targeting hospitals and clinics.

Establish partnerships with insurance companies for seamless integration.

 $Conduct\ regulatory\ compliance\ assessments\ to\ ensure\ adherence\ to\ healthcare\ standards.$

Create educational content and training for hospital staff on using the platform.

Explore additional sales channels, such as direct sales and online marketing.

Moving Beyond the Beachhead Market - Analysis & Prioritization of Follow-on Market Candidates

| Name of the Follow- On Market | Which market does it follow from? | Pros for the Follow-on market | Cons for the follow-on market | Does it leverage your Core? (Y/N) | Priority | Key Factors Needed to Succeed | Resources Required | Risk |
|-------------------------------------|---|---|--|---|----------|---|-----------------------|-------|
| Telehealth Services | Healthcare Patient Flow | Expands reach to remote patients | Requires additional regulatory compliance | Y | High | Strong partnerships with telehealth providers | \$300,000 | Mediu |
| Specialty Clinics | Healthcare Patient Flow | Access to niche markets and specialized services | Potentially higher competition in specialized areas | Y | Medium | Tailored marketing strategies for specialties | \$200,000 | Mediu |
| International Markets | Healthcare Patient Flow | Large potential user base in emerging markets | Cultural and regulatory differences | N | Low | Local partnerships and market research | \$500,000 | High |

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